

Manufacturer:

Henry Williams Ltd.
 VTS Track technology Ltd.
 LB Foster Rail technologies (UK) Ltd

Issue : 1

Valid From : 01/11/2013

BS110A / BS113A straight fishplates with round holes

Product Description

Complete range of BS110A / BS113A round-holed fishplates for use on BR109 rail including:

- Expansion joints
- Tight joints ('TJ')
- Thin plates ('F' – for use between running rails and check rails)
- Four hole and two hole

This does NOT include junction fishplates, which are used to joint different rail sections or similar rails with differing head wear.

Product Image



Scope of Acceptance

Full Acceptance

After a review of the relevant RE/PW standard drawings, acceptance has been extended to include the complete range of BS110A / BS113A round holed straight fishplates for use with BR109 rail.

The BS110A / BS113A range of fishplates were compared with their BR109 equivalents (RE/PW/3, RE/PW/110, RE/PW/111, RE/PW/154); the following was found:

- The design of the fishing surfaces were identical, but converted to metric from imperial units of measurement
- The current BR109 fishplates use pear-shaped holes; it is considered that these fishplates, and bolts, have a higher risk of cracks and breaks presenting a greater risk of rail failure and potential derailment than that associated with round holed equivalents
- These fishplates are expected to protrude by up to 1mm beyond the bottom of the railhead on BR109 rail; this reflects the accommodation of the 1:20 incline present on the BS110A / BS113A railhead but not on BR109 rail. This is not considered to increase derailment risk beyond that presented by pear-shaped holes.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.
 Authorised by

Cosmas Okoye
 Technology Introduction Coordinator

Andy Jones CEng MICE
 Professional Head

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section.

Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

1) N/A

User

1) N/A

Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
-	Pair of BS110A / BS113A TJ4 (tight joint 4 holed) fishplates with round holes, including bolts	0057/054294

Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Catalogue No.
-	BS110A / BS113A F2 (thin 2-holed) fishplate with round holes	0057/054235
-	BS110A / BS113A F4 (thin 4-holed) fishplate with round holes	0057/054236
-	BS110A / BS113A TJF2 (tight joint thin 2-holed) fishplate with round holes	0057/054245
-	BS110A / BS113A TJF4 (thin tight holed 4-holed) fishplate with round holes	0057/054246
-	BS110A / BS113A fishplate with round holes	0057/054263
-	BS110A / BS113A TJ2 (tight joint 2-holed) fishplate with round holes	0057/054280
-	BS110A / BS113A TJ4 (tight joint 4-holed) fishplate with round holes	0057/054281
-	Pair of BS110A / BS113A TJ4 fishplates with round holes	0057/054288

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Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
RE/PW/258	BS110A – BS113A tight joint fishplate	C	20/03/69	1
RE/PW/261	BS110A – BS113A fishplate	B	28/08/69	1
RE/PW/264	BS110A – BS113A F2 & F4 fishplate	A	28/08/69	1
RE/PW/265	BS110A – BS113A TJF2 & TJF4 fishplate	B	28/08/69	1

Certificate History

Issue	Date	Issue History
1	01/10/2013	First accepted for use

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Contact Details

Manufacturer

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person will invalidate the entire certificate.
- 2) Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.
- 3) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date.

2) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Acceptance Requirements and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Technology Introduction Group:
 - a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
 - b. Of any intended change to the accepted product; changes include:
 - i. a change to the product configuration (to the actual product or its application);
 - ii. a variation to or addition of manufacturing locations or processes;
 - iii. a change in the name or ownership of the manufacturing company;
 - iv. any changes to the ability or intention to support with technical services, spares or repairs.
- 3) The Manufacturer shall provide Network Rail Technology Introduction Group at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to the Network Rail Technology Introduction Group.
- 4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
- 5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
- 6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

3) Conditions of Use

Specifiers, installers, operators, maintainers, etc. using the product shall:

- 1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.
- 2) Check that the application of use complies with the relevant certificate's scope of acceptance.
- 3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Technology Introduction Group.
- 4) Inform Network Rail Technology Introduction Group in writing of a change to the product configuration (or to the actual product or its application).
- 5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
- 6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
- 7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.

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Issue : 1**Valid From :** 01/11/2013**4) Compliance**

Railways and Other Guided Systems (ROGS) Regulations

1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsor shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations

2) As required in Railway Group Standard GE/RT8270, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:

- a. All rail vehicle types that have access rights over the area affected by the change
- b. Infrastructure managed by others
- c. Neighbours.

Railway Interoperability Regulations

3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.

4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail Regulation) is required before the equipment is to be used in revenue earning service.

5) Supply Chain Arrangements

1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.

2) Products may be purchased by Network Rail or its agents, suppliers or contractors.

3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers.