

Manufacturer:
Thomson Engineering Design Ltd

Issue : 1
Valid From : 23/07/15

Rail Foot Thimble

Product Description

Rail and Conductor Rail Thimble – Accessory to be used with RRV Plant machinery, designed for the positioning and manipulation of flat bottomed rail and conductor rail.



Scope of Acceptance

This product is granted full Product Approval in accordance with the conditions and limitations defined on this certificate and in any associated reference documentation.

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:



Natasha Wardrop
Product Approval Coordinator



PP Paul Conway
(Acting) Head of Plant

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Specific conditions of use

1. Not to be used on live third and fourth rail electrification
2. Not to be used under live OLE
3. Not to be manually handled – white handles are for alignment of the thimble against the rail only and are to be used within the limitations, controls and exclusion zones applicable to the host machine. All lifting is to be completed with a suitable RRV or crane system. Unit weight 250kg
4. Hydraulic fittings must be compatible with the host RRV
5. Maximum weight carrying capacity is 2000KG SWL
6. Task specific surveys and risk assessments must be undertaken prior to using this product
7. The thimble is only to be used by persons trained and with a compliant competence in line with the OEMs instructions, Network Rail competency policies and the relevant employers Competency Management System
8. In accordance with OEM instructions Maintenance and Inspection tasks are listed for Daily (pre-use), Monthly and Six-monthly intervals representing 8, 150 and 1,000 hours use respectively
9. Periodic inspection and testing shall be completed in line with the manufacturer's instruction, this is to be recorded and confirmed before use. Lifting accessory inspections must be conducted in accordance with the Lifting Operations and Lifting Equipment Regulations (LOLER) and recorded. All inspection and periodic testing documentation is to be made available to the operator of the thimble before and during working operations.
10. The Maximum Pressure of 210bar is not to be exceeded at any time, (minimum operating pressure 90Bar)
11. This product must only be used in accordance with the host vehicles operational controls and limitations as defined on it's Engineering Acceptance Certificate
12. The rail foot thimble is designed for the threading of long flat bottom rail sections. it must not be used for any other purpose
13. Always stop the engine of the host machine and release the pressure from the hydraulic services before attempting to connect or disconnect hydraulic attachments.

Product configuration

Components

<u>Part No.</u>	<u>Description</u>	<u>Catalogue No.</u>
RFT21	Rail Foot Thimble (Universal Rail Thimble) Thomson Engineering design Ltd	094/013617
221212Assem3	Centre Sandwich Plate Fabrication	094/013618
221012Assem1	Lower Sandwich Plate Fabrication	094/013619
22101206	Thrust washer	094/013620
221012Assem5	Upper Sandwich Plate Fabrication	094/013621
221012Assem2	Roller and Shaft Assembly	094/013622
M12	Nord Loc Washer	

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M16	Nord Loc Washer	094/013623
M12x110	Hex Bolt Grade 8.8BZP	094/013624
M16x100	Hex Bolt Grade 8.8BZP	094/013625
M12	Nyloc Nut	094/013626
230609Assem2	12T Safety Bow Shackle	094/013627
231012Assem1	Cylinder Body Assembly	094/013628
231012Assem2	Rod Assembly	094/013629
TS20C	TSC Rod End Ball	094/013630
TS20CEN	TSCEN ball	094/013631
24101202	Ling Ram Pin	094/013632
24101203	Ram Pin Washer	094/013633
M12 x 35	Socket Head Cap Screw BZP Grade 12.9	094/013634
DX808540	MB8040DX	094/013635
261012Assem1	Retainer Assembly	094/013636
261012Assem2	Attachment Fabrication	094/013637
M12	Metric Flat Washer	094/013638
DX14014550	14050DX	094/013639
061112Assem2	Shaft Holder Fabrication	094/013640
SW3dPS	Grease Nipple – m6	094/013641
23101211	Ram Pin2	094/013642
23101210	Ram Pin1	094/013643
081112Assem1	Check Valve Mount Assembly	094/013644
08111205	3/8" BSP Banjo hose end 1/4" hose tail	094/013645
150113Assem22	Landing Keg Fabrication	094/013646
		094/013647

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<u>Reference</u>	<u>Title</u>	<u>Date</u>	<u>Issue</u>
GB00553	Mandatory Requirements 1.1 Quality management requirements BS EN ISO 9001 or equivalent	23/05/06	1
N/A	Mandatory Requirements 1.2 General Arrangement Drawings	N/A	1
N/A	Mandatory Requirements 1.3 Intellectual Property Statement	N/A	1
	Mandatory Requirements 1.4 Parts Lists	N/A	1
	Mandatory Requirements 1.5 EC Declaration of Conformity	N/A	1
	Mandatory Requirements 2.1 Stakeholder Impact Assessments	N/A	1
	Mandatory Requirements 2.2 Changes and Update Requirements Statement	N/A	1
	Mandatory Requirements 2.3 Operation and Maintenance Manual	March 2013	1
	Mandatory Requirements 2.4 Statement on Updating of Asset Data Systems	N/A	1
	Mandatory Requirements 2.6 Competence and Training Module Statement	N/A	1
	Mandatory Requirements 2.7 Statement regarding Briefing Materials	N/A	1
	Reference and Standards 3.2 Network Rail Company Standard Compliance	N/A	1
	Reference and Standards 3.4 RIS1701 Compliance	N/A	1
	Safety Requirements 4.1 Product Safety Case Information	N/A	1
	Safety Requirements 4.2 Personnel Health and Safety Issues	N/A	1
	Functional and Performance Requirements 5.3 Ergonomic Assessment	N/A	1
	Functional and Performance Requirements 5.4 Requirements for Product Performance	N/A	1

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	Rail Foot Thimble Introduction to the Stress Analyses	25/04/13	1
220715GBLO	Letter to C Browne NWR re product approval issues – Trial feedback and report.	22/07/2015	1

Certificate history

Issue	Date	History
T1	14/5/13	First accepted for Trial
1	23/07/2015	First granted full Product Acceptance

Contact Details

Manufacturer

Thomson Rail Equipment Ltd/Thomson Engineering Design Ltd
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Applicants and Sponsors

Linda Penfold - Senior Asset Engineer (Support) – Network Rail
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Geoff Brown - Engineering and Development Manager – Balfour Beatty Rail Ltd.
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Lead Product Reviewer

Chris Browne – Senior Engineer Plant [M&E] T&RS – Network Rail
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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;

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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.

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.

Certificate of Acceptance

PA05/05727

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