

Manufacturer:
Thomson Rail Equipment Ltd

Issue : 2
Valid From : 22-12-2015

Mast Rack Stillage

Product Description

Interlocking steel racking for the storage and transportation of OLE masts

Product Image



Scope of Acceptance

Full Acceptance

This product is approved for use on the Network Rail controlled infrastructure within the controls and limitations defined on this certificate and in any associated documentation.

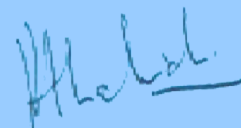
Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.

Reviewed by:

Authorised by:



Roger Moore
Product Acceptance Manager



Rashid Wahidi CEng .
Head of Plant, Traction And Rolling Stock.

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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) Please refer General Terms and Conditions

User

- 1) When on Network Rail Controlled Infrastructure, the Mast Rack Stillage equipment must only be used by authorised personnel in accordance with mandatory rules and regulations, equipment operating i, and the operators declared Safe System of Work for ALL operational circumstances infrastructure in accordance with **GE/RT8000** Rulebook.
- 2) Equipment Operator(s) shall ensure that equipment is maintained in accordance with equipment manufacturers recommendations.
- 3) Equipment Operator(s) shall ensure that both users and maintenance staff are suitable trained and competent to use the equipment.
- 4) Appropriate **PPE** must be worn at all times whilst the equipment is being operated.
- 5) The Mast Rack Stillage equipment must NOT be stacked during rail transportation.
- 6) The Mast Rack Stillage equipment must be used in accordance with an approved lifting plan.
- 7) The Mast Rack Stillage MUST have a method of aligning as stated in the 'ABC way how to use the Mast Rack installation system manual'.
- 8) The Mast Rack Stillage equipment must only be used with a 6 metre compatible trailer in accordance with manufacturer operation manual, and should be secured by twist locks to the trailer deck.
- 9) The Mast Rack Stillage equipment, MUST be evenly loaded/unloaded, with consideration to the balance of the Stillage in regards to the stability of the trailer, and load in accordance with the 'ABC way how to use the Mast Rack installation system manual', and a Safe System of Work.
- 10) Tare Weight : 1,800Kg.
SWL Weight: 10,000Kg.
- 11) The Mast Rack Stillage equipment shall not be used in LIVE third or fourth rail areas.
- 12) The Mast Rack Stillage equipment shall not be used with the adjacent lines open to traffic.

Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
271114Assem7	STILLAGE FABRICATION FOR THE TXM MAST STILLAGE (094/016209)	094/016211
151214Assem2	PAD ASSEMBLY FOR THE TXM MAST STILLAGE (094/016209)	094/016194
151214Assem6	SIDE PAD ASSEMBLY FOR THE TXM MAST STILLAGE (094/016209)	094/016195
151214Assem11	CROSS BEAM ASSEMBLY FOR THE TXM MAST STILLAGE (094/016209)	094/016196

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Part No.	Description	Catalogue No.
151214Assem13	TWIST LOCK FABRICATION FOR THE TXM MAST STILLAGE (094/016209)	094/016197
6051301	PVC LIFTING POINT STICKER FOR THE TXM MAST STILLAGE (094/016209)	094/016198
16121403	PVC STRAP TOWAGE STICKER FOR THE TXM MAST STILLAGE (094/016209)	094/016199
16121404	PVC TARE WEIGHT STICKER FOR THE TXM MAST STILLAGE (094/016209)	094/016200
16121406	PVC SWL STICKER FOR THE TXM MAST STILLAGE (094/016209)	094/016201
050115Assem1	TWIST LOCK HANDLE FABRICATION FOR THE TXM MAST STILLAGE (094/016209)	094/016202
M20	M20 PLAIN CARBON STEEL NYLOC NUT FOR THE TXM MAST STILLAG (094/016209)	094/016203
7011502	SPRING, BS EN10025: S275, 22.74 FOR THE TXM MAST STILLAG (094/016209)	094/016204
30051322	PVC UNLOCK STICKER FOR THE TXM MAST STILLAGE (094/016209)	094/016205
30051323	PVC LOCKED STICKER FOR THE TXM MAST STILLAGE (094/016209)	094/016206
030215Assem2	HINGE PIN ASSEMBLY FOR THE TXM MAST STILLAG (094/016209)	094/016207
120215Assem2	FIXING PIN ASSEMBLY FOR THE TXM MAST STILLAG (094/016209)	094/016208
151214Assem3	TXM MAST STILLAGE	094/016209

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
EN BS ISO 9001 – GB00553.	Quality Management Certificate - EN BS ISO 9001: 2008.	01	22/05/2015	1
Thomson Engineering & Design Ltd.	Friction calculations for the Mast Rack Stillage.	01	29/04/2015	1
Thomson Engineering & Design Ltd.	2-Dimensional engineering drawing.	02	01/02/2015	1
Thomson Engineering Design Ltd.	Proposed railway application and limitations of the Mast Rack Stillage.	01	29/04/2015	1
271114Assem7 Simulations –Thomson Design Ltd.	Mast Rack Stillage design fatigue, full load stress analysis, stress analysis of Stillage under full load static conditions, longitude, and lateral stress analysis.	01	01/05/2015	1
Thomson Engineering Design Ltd.	Assessment of product performance of the Mast Stillage.	01	29/04/2015	1
Thomson Engineering Design Ltd.	Intellectual property statement.	01	28/04/2015	1
Thomson Engineering Design Ltd.	Engineering management changes to Mast Rack Stillage statement and methodology.	01	28/04/2015	1
Thomson Engineering Design Ltd.	Mast Rack Stillage orderable parts.	01	01/05/2015	1
Thomson Engineering Design Ltd - 2006/42/EC.	Certificate of conformity.	01	01/03/2015	1
Thomson Engineering Design Ltd.	Maintenance instructions for the Thomson Engineering Mast Stillage.	01	01/02/2015	1

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
Part 1 to 4 Reference No. POSP03F01/Wigan/MW5 2 -TXM Plant Ltd.	Vehicular Plant Work Plan - Wigan Stillage Trials.	01	23-27 /03/2015	1
Thomson Engineering Design Ltd.	Mast Rack Stillage: Application for deviation	01	01/04/2015	1
Thomson Engineering Design Ltd.	Mast Rack Stillage: Application for deviation	02	04/06/2015	1
ABC	Mast Rack Stillage revised risk assessment	1	24/09/2015	1
Thomson Engineering Design Ltd	Mast Rack Stillage revised 2-Dimensional engineering drawing.	03	26/10/2015	1
Thomson Engineering Design Ltd	Mast Rack Stillage revised design fatigue, full load stress analysis, stress analysis of Stillage under full load static conditions, longitude, and lateral stress analysis.	02	26/10/2015	1

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
Thomson Engineering Design Ltd.	Operators' instructions.	01	01/02/2015	1
Thomson Engineering Design Ltd	Training Requirements for users of the Mast Rack Stillage – statement.	01	29/04/2015	1
ABC, TXM and Thomson Rail Equipment Ltd.	The ABC Way - Operational document for how to use the Mast Rack installation system	02	24/09/2015	1

Certificate History

Issue	Date	Issue History
1	15-12-2015	First accepted for use
2	22-12-2015	Minor admin error resolved with re-issue/up-issue of cert.

Contact Details

Manufacturer
David Thomson
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Applicant
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Lead Reviewing Engineers



18/12/2015
Timi Ajasa
Lead Reviewer
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18/12/2015
Chris Browne
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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the Professional Head or nominated delegate. Any alterations made by a other persons 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 Product Acceptance:
 - 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 Product Acceptance or National Supply Chain (NSC) 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 Network Rail Product Acceptance.
- 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

Specifies, 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 Product Acceptance.
- 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 Product Acceptance.
- 4) Inform Network Rail Product Acceptance 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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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.