



Technology Introduction Group
Network Rail
Floor 3, 40 Melton Street
London. NW1 2EE

Certificate of Acceptance

Certificate No: PA05/00087 Issue: 2 Date: 21/12/2009
Effective date: 21/12/2009 Page 1 of 5

Product:	CEN56 Weldable Cast Manganese Crossings (Variants as described within this certificate)
Manufacturer:	Jez Sistemas Ferroviarios, Arantzar, S/N. 01400, LADIO/LLODIO. Spain.
	VAE Eisenbahnsysteme GmbH, Alpinestrasse I, A-8740 Zeltweg, Austria.
	VAE UK Ltd., Sir Harry Lauder Road, Edinburgh. EH15 2QA

The product above is accepted for use on railway infrastructure for which Network Rail is the Duty Holder (as per the ROGS regulations) within the defined Scope of Acceptance and any specific conditions in the certificate. Where the product is to be used as part of infrastructure for which NR is not the duty holder (e.g. Leased station), this certificate may be taken as evidence that the product is compatible with NR infrastructure (within the Scope of Acceptance), however it shall not absolve the sponsor from complying with any product acceptance requirements of that duty holder before committing that product to use.

Failure to abide by the certificate requirements may lead to acceptance by Network Rail becoming invalid.

Scope of Acceptance

CEN 56 Weldable Manganese Crossings variants as per the attached drawing schedule. Crossings are approved to have radii applied to suit the required geometry, but not tighter than 200m radius on the through route.

Specific Conditions:

Refer to the pages which follow for the product configuration and detailed conditions of use.

Authorised by:

Andy Jones
Professional Head of Track Engineering



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SPECIFIC CONDITIONS

MANUFACTURER

JEZ Sistemas Ferroviarios shall:

- Design and manufacture crossings in accordance with NR/SP/TRK/012 (formerly RT/CE/S/012)
- Manufacture crossings in accordance with the drawings listed in the attached schedule. Any changes or variations to the manufacturing drawings shall be submitted to Network Rail for endorsement.
- Ensure that Manufacturing processes and Inspection activities are controlled in accordance with the above specification and as detailed in the agreed Manufacture and Control Plan (PFC_CZV_C_56E1- Copy attached)
- Ensure that the latest relevant standards/ drawings are available and worked to, and that the product is compliant.
- Notify Network Rail Technology Introduction Group:
 - Within 48 hours, of any deficiencies affecting the product quality, functionality and safety integrity of the product (including corrective action undertaken or proposed).
 - Of any intended change to the accepted product. Changes include:
 - a) a change to the product configuration (to the actual product or its application);
 - b) a variation to or addition of manufacturing locations or processes; and
 - c) a change in the name or ownership of the manufacturing company.
- Provide all documentation in the English (UK) language.
- Provide operating and maintenance manuals to purchasers/users of the product.
- Provide training manuals and an appropriate level of training to purchasers/users of the product.

Manufacture of the cast crossings may be undertaken at either the foundry at the above address in Llodio, Spain or at the Material Ferroviaire D'Arberats (MFA) foundry in southern France. Both foundries are owned and managed by Jez.

Flash butt welding activities, of crossing leg ends, to be undertaken at the VAE Eisenbahnsysteme GmbH plant, Zeltweg, Austria, in accordance with NR/SP/TRK/131.
The machine to be used is the Schlatter: GAA 100/580, Serial No. 2660.03003.

Production bend testing will also be carried out in accordance with NR/SP/TRK/131. Bend tests are to be subjected to the minimum specified load plus 10%, rather than taken to failure.

USER CLAUSES

- Crossings are to specified, installed and maintained in accordance with relevant Network Rail Standards
- The manufacturer's manual 'Site Maintenance and Repair of Manganese Crossings' is to be used for guidance and good practice. Weld repair of crossings shall be carried out in accordance with Network Rail procedures or standards.
- Users of the product are responsible for ensuring compliance with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Technology Introduction Group.



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- Users are responsible for ensuring that the product is fit for purpose and that the application of use complies with the scope of acceptance. Any product defect should be taken up immediately with the supplier. If the defect is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway this shall be reported in writing to Network Rail Technology Introduction Group.
- Anyone becoming aware of a change to the product configuration (to the actual product or its application) should inform Network Rail Technology Introduction Group in writing.
- All staff required to use the equipment shall be suitably trained and, where appropriate, qualified as competent to use it.
- Products shall be maintained in accordance with the manufacturer's recommendations.
- Products shall be repaired / serviced by the manufacturer or its nominated agent only.
- Where the product is to be used in areas where Network Rail is not the Duty Holder (e.g. Leased Stations), the sponsor shall obtain formal consent from the Duty Holder for the locality where the equipment is to be installed in compliance with Railway Group Standard GE/RT8270 to deploy that equipment on, or about, or as part of that party's on or about their infrastructure. The decision of that party is absolute, and cannot be overridden except through the escalation processes established in the ROGS regulations.

SUPPLY CHAIN ARRANGEMENTS

- If a product is accepted for use, Network Rail (or it's formally appointed agents) may wish to purchase the product direct from the manufacturer or alternatively contract an installer or other contractor who will purchase the product from the manufacturer.
- Network Rail's approach to sourcing products following acceptance will vary across different product categories. However it is not necessary (and it is not a requirement of Network Rail) for a manufacturer to enter into an exclusive supply arrangement with a reseller or other supplier in order to supply your products/equipment to Network Rail.

PRODUCT CONFIGURATION

<i>Straight Vee</i>					<i>Curved Vee</i>
<i>Tangent</i>	<i>Splay</i>	<i>PWR</i>	<i>PWL</i>	<i>DPW</i>	<i>Splay</i>
1 in 7	18115-1	18115-2	18115-3	18115-4	
1 in 8	14060-1	14060-2	14060-3	14060-4	
1 in 9.25	13801-1	13801-2	13801-3	13801-4	14115
1 in 10	14022-1	14022-2	14022-3	14022-4	
1 in 10.75	14013-1	14013-2	14013-3	14013-4	14114
1 in 15	13784-1	13784-2	13784-3	13784-4	14032



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1 in 18.5	14026				
1 in 21	13765				
1 in 24	14028				
1 in 28	14021				
1 in 13	13341				
1 in 9.25	14030				

ASSESSED DOCUMENTATION

Reference	Title	Date and Applies to Cert. issue No.	
----	Jez Dossier 56E1 Cast Manganese Steel Crossings	----	2
----	Jez Manufacturing and Control Plan (PFC CZV C 56E1)	----	2
----	NR/SP/TRK/012 Cast Manganese Steel Crossings	----	2
----	NR/SP/TRK/131 Flash-welded rails – crossings, switch rails and transition rails	----	2
----	Flash Butt Welding Homologation : New machine Schlatter GAA 100/580 Nr. 2660.03003	----	2
	VAE Bend test results (Jan-Sept 2009)	---	2

CERTIFICATE HISTORY

Issue Number	Date	Issue History
1		First accepted for use.
2	21/12/2009	Re-issued to amend scope, conditions and configuration.



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DISTRIBUTION

Manufacturer

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