



Certificate of Type Approval for a product or system

Discipline	Track Engineering
Reference	TR14/1001
Manufacturer	Arcelor Mittal
Supplier	JSteel / Arcelor Mittal
Place of Manufacture	Gijon, Spain
Product/System description	Provision of Hot Rolled Railway Rails i) Production and supply of 60kg/m (Vignole) Flatbottom rail up to 55 metres in length ii) Rail provision as Pearlitic Standard Carbon and Head Hardened variants.
Use approved for	The above rail provision is approved for Plain Line and Switch and Crossing assemblies. Installation within all mainline and secondary routes for axle loadings up to 30 tonnes. Configuration shall be subject to requirements of Asset Standards Authority Track Standards and Specifications.

Conditions

1. All Type Approval Certifications will be subject to review within a period not exceeding 5 years.
2. Steel Manufacture and dimensions shall be compliant with the requirements of AS 1085-1.
3. The Place of Manufacture shall hold International Quality System Certification.
4. Identification of rail defect types previously not experienced shall require further collaborative investigation and research to establish appropriate remedial procedures.
5. Until further notice a register shall be maintained of all locations where Arcelor Mittal rail is installed
6. Rails shall only be joined by approved and compatible Alumino-Thermic and Flashbutt processes.
7. No previous Product Approvals are superseded by this approval certificate.
8. The supplier or manufacturer must advise TfNSW ASA of any changes made to the product or system that may alter its identification, performance characteristics, form, fit, function, processes required for correct usage or place of manufacture to enable review and revision of this approval.

Approval

Signature	
Name	John Paff
Title	Lead Engineer Track Engineering
Date	



Schedule of Certifications

Title	Registration Number	Valid till	Issuing Authority	Status
Quality Management System (ISO 9001:2008) Issued by IQNet	ES-0030/1992	1999-08-01	2016-04-20	Current

Supporting Documentation

Title	Issuing Authority	Author	Report Number	Status
Assessment of 60Kg/m Standard Carbon Arcelor Mittal Rail	Monash University	J. Cookson, I Salehi, P Mutton	Monash/RT/2012/740	Final Report
Assessment of 60Kg/m Head Hardened Arcelor Mittal Rail	Monash University	J. Cookson, P. Mutton	Monash/RT/2013/812	Final Report
Flashbutt Welding of Arcelor Mittal AS-Rolled Rail	Monash University	P. Mutton	Monash/RT/2009/389	Addendum
Flashbutt Welding of Arcelor Mittal Head Hardened Rail	Monash University	P. Mutton	Monash/RT/2012/741	Addendum