

Product Type Approval Certificate

Full / ~~Provisional~~ / ~~Restricted~~

This certificate is issued to:

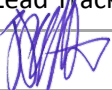
Supplier name and address:	voestalpine VAE Railway Systems Pty Ltd 33 McLennan Street, Mackay, QLD, 4740 34 Alpha Street, Bathurst, NSW, 2795
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In respect of:

Manufacturer:	voestalpine BWG GmbH
Place of manufacture:	Uferstraße 97 14774 Brandenburg-Kirchmöser / GERMANY
Product description:	Elastic Couplings Swt 13 for jointed bearers as per voestalpine BWG drawing number 096.0522.2
Use approved for:	In turnouts used on the TfNSW Heavy Rail Network
Conditions of approval:	<ol style="list-style-type: none"> 1. This Type Approval Certificate will be subject to review within a period not exceeding 5 years. 2. The place of manufacture shall hold International Quality System Certification. 3. Should the presence of any previously unidentified defect or condition in service arise, it shall require further collaborative investigation. 4. This Type Approval supersedes all Trial Type Approvals issued for use of Elastic Couplings Swt 13 for jointed bearers at specific locations on the TfNSW Heavy Rail Network. 5. The supplier or manufacturer must advise ASA, TfNSW of any changes made to the product or system that may alter its identification, performance characteristics, form, fit, function,

	<p>processes required for correct usage or place of manufacture, to enable review and revision of this approval.</p> <p>6. Competent personnel must be engaged to install and maintain Elastic Couplings Swt 13 coupling system for jointed bearers, based upon information contained within the installation manual provided with the Elastic Couplings Swt 13 coupling system by the manufacturer.</p> <p>7. This Type Approval shall be referenced on all AFC and As-Built drawings.</p>
Limitations:	NA

Evaluating rail transport operator

Name:	John Paff
Position:	Lead Track Engineer, Asset Standards Authority, Transport for NSW
Signature:	
Date:	04-10-19

Product approval pack reference number:

Annexure 1 Schedule of Certifications

Title	Registration Number	Valid till	Issuing Authority	Status
voestalpine VAE Railway Systems Pty Ltd Quality Management System ISO 9001:2015	AU002255-1	26/03/2020	Bureau Veritas Certification	Current
voestalpine VAE Railway Systems Pty Ltd Management System OHSAS 18001:2017 AS-NZS 4801:2001	AU002256-1	26/03/2020	Bureau Veritas Certification	Current
Rocla Pty Ltd Quality Management System ISO 9001:2015	QEC0177	14/09/2021	SAI Global Certification Services	Current
Holcim (Australia) Pty Ltd Quality Management System ISO 9001:2015	FS604129	06/06/2022	BSI Group ANZ Pty Ltd	Current
Austrak Pty Ltd Quality Management System ISO 9001:2015	4664	04/10/2020	Sci Qual International Pty Ltd	Current
voestalpine BWG GmbH Quality Management System ISO 9001:2015	73 100 4288	21/07/2022	TÜV Technische Überwachung Hessen GmbH	Current

Title	Registration Number	Valid till	Issuing Authority	Status
voestalpine BWG GmbH Quality Management System ISO 9001:2015	73 100 4288-4	21/07/2022	TÜV Technische Überwachung Hessen GmbH	Current

Annexure 2 Supporting Documentation

Title	Issuing Authority	Author	Report Number	Status
Jointed Bearer System Trial Inspection No. 2 & 3 – 654 turnouts Redfern	Sydney Trains	Joseph Sest	Technical Report TR 256.2	Current
Elastic Couplings Swt 13 (Vibration Dampers) for Ballasted Track - Assembly, Inspection and Maintenance Manual for Sydney Trains	voestalpine BWG	Brehm	K-2017-015-2	Current
Engineering Advice - Track	Sydney Trains	Jonathon McKinnon	EA T 18/03	Current
Letter – Integrity and functionality of adaptor plates with changed hole centre distance	Voestalpine VAE Railway Systems	Torsten Braun	Order No. 58561	Issued on 11/05/2017
BWG Jointed Bearer System - Approval for use in Trans-European Rail Network (TERN)	Federal Railway Authority, Germany	Norbert Fischer	21.72-21izbo/015-2101#051-(543/11-Zul.)	Issued on 01/08/2014
Reference list turnouts with vibration damping couplings	Voestalpine VAE Railway Systems BWG	voestalpine BWG		Issued June 2017
Technical Drawing	voestalpine BWG	V..Weber	Drawing number 096.0522.2	Issued 8/5/2017

Title	Issuing Authority	Author	Report Number	Status
Technical Report- split long bearers	voestalpine BWG	Kleeberg	PrM-2011-020-1-TB	Issued 8/5/2017
Elastic Couplings Swt 13 (Vibration Dampers) for Ballasted Track - Assembly, Inspection and Maintenance Manual	voestalpine BWG	Berhm	K-2017-015-0	Issued 20/06/2017
Test Report- Precast Bearer with cast –in Ferrule	Swinburne University of Technology Faculty of Science, Engineering and Technology Smart Structures Laboratory	Kia Rasekhi	SSL17-10022	Issued 13/9/2017
Rocla - Testing of Rocla Concrete Bearer Inserts	Rocla Pty Ltd and Monash University (Institute of Railway Technology)	S.Naidoo and A.Coram	Monash/RT/2017/1298	Issued September 2017