

Product Type Approval Certificate

Full / Provisional / Restricted

This certificate is issued to:

Supplier name and address:	Cold Forged Products Pty Ltd, 19 Resolution Drive Caringbah NSW, 2229, Australia (GageLok® screw spikes and Filler-Lok®)
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In respect of:

Manufacturer:	GageLok® screw spikes - Shanghai Suyu Railway Material Co., LTD Filler-Lok® - Era Polymers Pty Ltd
Place of manufacture:	Room 1737, Building 15, No. 201 Jinxiang Road, Pudong, Shanghai, China, 201206 (GageLok® screw spike) 2-4 and 25-27 Green Street, Banksmeadow NSW 2019 Australia (Filler-Lok®)
Product description:	SlabLok® System composed of two products: 24mm GageLok® screw spikes and Filler-Lok®.
Use approved for:	Concrete bearers and sleepers at various locations on the TfNSW heavy rail network
Conditions of approval:	<ol style="list-style-type: none"> 1. All Type Approval Certifications will be subject to review within a period not exceeding 5 years. This certificate shall only be used by Sydney Trains unless prior approval of the Director of Corridor Infrastructure & Engineering, AMB is sought. 2. The places of manufacture shall hold International Quality System Certification. 3. The suppliers shall provide in writing verification of the quality assurance of all third-party products, in the absence of any third party product supplier's International Quality System Certification. 4. The SlabLok® System (composed of Filler-Lok® and GageLok® screw spikes) must be installed strictly in accordance with the manufacturers' instructions. 5. The installation process must not have any detrimental effect upon the electrical insulation properties of the

	<p>SlabLok® System. Adequate measures shall be in place to avoid any misalignment when redrilling the hole prior to installation of GageLok® screw spikes, to avoid the contact with tendons (reinforcing steel) within the bearer or sleeper.</p> <ol style="list-style-type: none"> 6. Should the presence of any previously unidentified defect or condition in service arise, it shall require further collaborative investigation. 7. The supplier or manufacturer must advise AMB, TfNSW of any changes made to the products 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 type approval. 8. This type approval shall be referenced on all Approved For Construction and As-Built drawings.
<p>Limitations:</p>	<ol style="list-style-type: none"> 1. This Type Approval is based on clearances between ferrules and tendons provided in Rocla bearer drawing B90250a, and is valid for bearers and sleepers with similar designs / clearances between ferrules and tendons. 2. Existing SlabLok® System composed of two products: 24mm GageLok® screw spikes and SpikeFast® ES-50 RM in track will be maintained as per previous requirements and will be replaced by 24mm GageLok® screw spikes and Filler-Lok® when replacement is required.

Evaluating rail transport operator

Name:	John McLeod
Position:	Director. Corridor Infrastructure & Engineering, Asset Management Branch, Transport for NSW
Signature:	
Date:	2/6/2022

Product approval pack reference number: qA891205

Annexure 1 Schedule of Certifications

Title	Registration Number	Valid till	Issuing Authority	Status
Certification of Registration Quality Management System ISO 9001:2015 – Cold Forged Products	QEC23739	12/08/2024	SAI Global Pty Ltd.	Current
Quality Management system Certificate ISO 9001:2015– Shanghai Suyu Railway Material Co., LTD	ASED2019Q 8236R05	20/10/2022	ASCEND Certification	current
Certification of Registration Quality Management System - ISO 9001:2015 Era Polymers Pty Ltd.	12C5802B58 980D58CA25 8694000694 E2	14/06/2022	Global-Mark Pty Ltd	Current

Annexure 2 Supporting Documentations

Title	Issuing Authority	Author	Report Number	Status
Filler-Lok® Technical Data Sheet	Era Polymers Pty Ltd	Era Polymers Pty Ltd	Version 1,	Issued on 26/11/2021
National Association of Testing Authorities (NATA) accreditation for Era polymers Pty Ltd	NATA, Australia	NATA, Australia	Accreditation number: 4815	Issued on 03/11/2021

Title	Issuing Authority	Author	Report Number	Status
Testing of GageLok® 24 Timber Screw Spikes to AS1085 Part 18 (Timber pull-out test)	Institute of Railway Technology	Graham Tew and Alan Coram	Monash/RT/2016/1171	Issued on May 2016
Trial of the SlabLok® System – Tempe 749 Diamond Technical Report	ESI –Track Engineering, Sydney Trains	Jonathan Chan	TR. 265	30/07/19
Confirmation of performance	ESI – Track Engineering, Sydney Trains	Jonathan Chan	e-mail confirmation	6/05/2022
Filler Lok® Part A (Polyurethane isocyanate) Material Safety Data Sheet	Era Polymers Pty Ltd	Era Polymers Pty Ltd	MSDS Version No: 1.1.13.9 Hazard Alert code 4	20/08/2021
Filler Lok® Part B (Polyurethane curative) Material Safety Data Sheet	Era Polymers Pty Ltd	Era Polymers Pty Ltd	MSDS version 2.3 Hazard Alert code 4	31/10/2021
SlabLok® Installation – Work Instruction, V 10	Cold Forge	Cold Forge	-	12/01/2022
SlabLok® System – Risk Register	ESI – Sydney Trains	Lexie Reynolds Walsh	-	09/04/18
GageLok® 24 Screw Spike – Drawing, Rev 04	Cold Forge	Clayton George	SAP Part No. S10529	22/07/15
Filler-Lok Pullout Test Report	ALS industries Pty Ltd	Rhys James (Metallurgist)	WS151034	24/11/2021