

Product Type Approval Certificate

Full

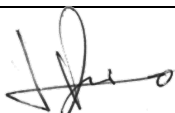
This certificate is issued to:

Supplier name and address:	Delkor Rail Pty Ltd. 74 Harley Crescent, Condell Park, NSW, 2200, AUSTRALIA
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In respect of:

Manufacturer:	Sekisui Chemical Co. Ltd.
Place of manufacture:	Shiga – Ritto plant, 75 Nojiri, Ritto -Shi, Shiga, JAPAN
Product description:	FFU74 (Fiber Reinforced Foamed Urethane) synthetic sleepers and bearers
Use approved for:	TfNSW rail networks
Conditions of approval:	<ol style="list-style-type: none"> 1. The place of manufacture shall maintain current International Quality System Certification. 2. Should the presence of any previously unidentified defect or condition in service arise, it shall require further collaborative investigation with the RIM, and with AMB to be notified of the outcome. 3. The supplier or manufacturer shall 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 approval. 4. FFU sleepers/bearers can be used as a direct replacement for timber sleepers (including half sleepers) and bearers. FFU transoms, however, are covered under a separate Type Approval. 5. Technical Maintenance Plan information shall refer to the Material Safety Data Sheet for the management of FFU materials. 6. TR16/2006 is superseded by this Type Approval certificate.
Limitations:	

Evaluating rail transport operator

Name:	Dennis Lo
Position:	A/Director, Corridor Infrastructure & Engineering, Asset Management Branch, Planning, Integration & Passenger, Transport for NSW
Signature:	
Date:	28/10/2024

Product approval pack reference number: qA8330797

Annexure 1 Schedule of Certifications

Title	Registration Number	Valid till	Issuing Authority	Status
Quality Management System Certification (ISO 9001:2015)	JQA-1817	24/07/2026	JQA – Japan Quality Assurance Organization	Current
Quality Management System Certification (ISO 9001:2015)	QEC23882	4/02/2027	SAI Global Certification Services Pty. Ltd.	Current

Annexure 2 Supporting Documentation

Title	Issuing Authority	Author	Report Number
Safety Data Sheet	Sekisui	N/A	Revised version April 7 2023
Follow-up Survey on FFU Synthetic Sleepers after 30 Years in Service	Railway Technical Research Institute (RTRI) Japan	Track Structure Department, Track Technology Division	June 2011
E-mail from Delkor Rail Pty Ltd. confirming no changes in material design and Manufacturing process	Delkor Rail Pty. Ltd.	Robert Barnbrook	E-mail dated 2/04/2024
E-mail from Sydney Trains confirming satisfactory performance	Sydney Trains	Jonathan Chan	E-mail Dated 5/09/2024