

Product Type Approval Certificate

Full

This certificate is issued to:

Supplier name and address:	Phoenix AG (Aust) Pty Ltd 26 Mockridge Street, Wantirna South VIC 3152, AUSTRALIA
-----------------------------------	--

In respect of:

Manufacturer:	KRAIBURG STRAIL GmbH & Co. KG
Place of manufacture:	Göllstraße 8, D-84529 Tittmoning, GERMANY
Product description:	veloSTRAIL level crossing
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. Flange gap filler is a consumable part in this product, and it shall be periodically replaced as per manufacturer's maintenance guidelines. 5. Hand trollies, high rail carts and other high rail equipment with axle load less than 640kg shall traverse veloSTRAIL level crossing at speed less than 5kph. Suitable signage shall be provided at level crossing sites to mitigate safety risk.
Limitations:	<ol style="list-style-type: none"> 1. The use of this product is limited at locations with track speed that is less than 120kph. 2. The product shall NOT be installed within 1000m downstream from an active track lubrication point. 3. This product shall be used within the limitation of track parameters specified by the manufacturer.

Evaluating rail transport operator

Name:	Dennis Lo
Position:	A/Director, Corridor Infrastructure & Engineering, Asset Management Branch, Safety Environment and Regulation, Transport for NSW
Signature:	
Date:	22/02/2024

Product approval pack reference number: qA7799586

Annexure 1 Schedule of Certifications

Title	Registration Number	Valid till	Issuing Authority	Status
Quality Management System Certification (ISO 9001:2015)	Q 000189/0	8 Feb 2027	Quality Austria	Current
Environmental management System Certification (ISO 14001:2015)	U -03547/0	5 Feb 2027	Quality Austria	Current
Energy Management System ISO 50001:2018	EM-00061/2	20 Oct 2026	Quality Austria	Current

Annexure 2 Supporting Documentation

Title	Issuing Authority	Author	Report Number
VeloSTRAIL Component Drawing	KRAIBURG STRAIL GmbH & Co. KG	N/A	N/A
VeloSTRAIL product information	KRAIBURG STRAIL GmbH & Co. KG	N/A	N/A
veloSTRAIL installation instructions Rev.05 05_2020 / TNA	KRAIBURG STRAIL GmbH & Co. KG	N/A	N/A
wear and material analysis of used veloSTRAIL replaceable flange parts	KRAIBURG STRAIL GmbH & Co. KG	N/A	N/A
Slip Check to AS 4586-2013	Safe Environments Pty Limited	Dale Rowell	R28379, 17 April 2023
Rail Flange Gaps: Evaluation of Flangeway Fillers at Pedestrian Crossings	Centre for Rail Australasian Innovation"	Paul Murray	LC15B
The Development of veloSTRAIL closed flange level crossing system	Phoenix AG (Aust) Pty Ltd	Andrew Roseman	AusRAIL December 2008, Australia
Trial Evaluation Report, HOCS004-T4T-CLD-TR-RPT-000007 Rev C (12 October 2023)	TRANSPORT FOR TOMORROW	Nilesh Patel	HOCS004-T4T-CLD-TR-RPT-000007
VeloSTRAIL Stage 3 Trial Report, Bellambi Pedestrian Level Crossing, January 2024	Transport for New South Wales	Dean Lord	N/A
No Objection confirmation from Sydney Trains Engineering and Maintenance (E-mail confirmation)	ESI, Sydney Trains Track Maintenance, Sydney Trains	Anthony Lee John Gullick Andrew Lagos	N/A