

NEW EQUIPMENT AND SYSTEM
APPROVAL CERTIFICATE

Certificate No. NESA-T079

Version No. 1.1

Approval date 12 January 2023

Approved by Head of Engineering Standards

This certificate is issued to

Supplier SALIX
1/23-27 Waratah Street
Kirrawee NSW 2232

*In respect of***Product description** SALIX Rail Swing Nose Crossing Assemblies**Application** Hexham Relief Roads and Aurizon LTTSF only.

Key design points are:

The turnouts are approved for the following standard configurations:

- 60kg – 1 in 15 Crossing Rate - 500m Turnout Radius
- 60kg – 1 in 12 Crossing Rate – 300m Turnout Radius
- 60kg – 1 in 12 Crossing Rate – 500m Turnout Radius

The turnouts will be produced from UIC60 head hardened rail and suitable for the following axle loads and speeds in the Mainline direction:

- 20 TAL @ 160 km/hr
- 25 TAL @ 115 km/hr
- 30 TAL @ 80 km/hr
- 32.5 TAL @ 80 km/hr

Maximum speeds on the Diverge for all axle loads are:

- 45km/hr for the 1:12-300 turnout
- 60km/hr for the 1:12-500 turnout
- 60km/hr for the 1:15-500 turnout

Relevant Standards ETA-03-03 Technical Specification
Section 3 Points and Crossings – CoP Section**Conditions of
Approval**

1. Items to be installed and maintained as per manufacturer's instructions.
2. SALIX to provide instruction to maintenance personnel on the inspection and maintenance of the SNC, including provision of documentation and a site demonstration, prior to commissioning of the turnouts.
3. The appropriate Construction Method Statement (CMS) or Work Method Statement (WMS) will be prepared by the turnout installer

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detailing how the turnout will be installed, including lift plan where necessary. The CMS or WMS will be available on site during the construction period and included in handover documentation at the completion of work on site.

4. SALIX to provide ongoing technical support and provision of maintenance manuals for the lifetime of the turnouts.
5. Ellipse shall be updated with the required inspection requirements per EGP-03-02.
6. Prior to its use with a specific manufacturer's turnout and with a specific point motor, a design drawing showing all the components of the turnout, point motor, spherolock and all rodding including all required detailed parts drawings shall be produced and approved as per the engineering design approval process. A copy of the drawings shall be provided to the standards section.
7. Rail and switch & crossing components to be ground for the WPR2000 in areas where this wheel profile is in operation. For areas on the ARTC network where the WPR2000 wheel profile does not operate, the rail and switch & crossing components are to be ground for the ANZR1 wheel profile. In all areas, all components are to be suitable for the relevant wheel profile in both new and used condition.
8. A report is to be submitted by SALIX to the standards section detailing the performance of the turnouts which are to be installed as part of the Hexham Relief Roads project. Performance reports are to be submitted at 3 months and 12 months after commissioning of the turnouts.

A general condition of approval is that the supplier remains accredited to ISO 9001 specifically for these products and ARTC is advised on a 12 monthly basis that accreditation is current. ARTC reserves the right to conduct its own audit of the manufacture and supply of these components to AS 19011.

Any subsequent change to the design, materials or manufacturing process is not covered by this approval. The manufacturer should notify ARTC of any modification or changes in order to obtain a valid certificate.

Issue date 12/01/2023

Expiry date N/A

Issued by

ARTC Manager Track and Civil Standards