

Main Roads Technical Standard

MRTS80

Supply and Erection of Bridge Barrier

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FEEDBACK

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Supply and Erection of Bridge Barrier

1 INTRODUCTION

This Standard applies to the supply and/or transport and erection of steel and/or aluminium bridge barrier.

This Technical Standard shall be read in conjunction with MRTS01 *Introduction to Technical Standards*, MRTS50 *Specific Quality System Requirements* and other Technical Standards as appropriate.

This Technical Standard forms part of the Main Roads Specifications and Technical Standards Manual.

2 DEFINITION OF TERMS

The terms used in this Standard shall be as defined in Clause 2 of MRTS01 *Introduction to Technical Standards*.

3 REFERENCED DOCUMENTS

There are no Australian Standards referenced in this document.

4 QUALITY SYSTEM REQUIREMENTS

4.1 Hold Points, Witness Points and Milestones

General requirements for Hold Points, Witness Points and Milestones are specified in Clause 5.2 of MRTS01 *Introduction to Technical Standards*.

The Hold Points and Witness Points applicable to this Standard are summarised in Table 4.1. There are no Milestones defined.

Table 4.1 – Hold Points and Witness Points

Clause	Hold Point	Witness Points
8	1. Barrier alignment and levels.	Erection of bridge barrier.

4.2 Conformance Requirements

The conformance requirements which apply to lots of work covered by this Technical Standard are summarised in Table 4.2.

Table 4.2 – Conformance Requirements

Clause	Conformance Requirement
8	Erected barrier

5 SUPPLY OF BRIDGE BARRIER

The provisions of the following Standards shall apply to fabrication of bridge barrier, as applicable –

- a) MRTS78 *Fabrication of Structural Steelwork*; and
- b) MRTS79 *Fabrication of Aluminium Components*.

6 TRANSPORT TO SITE

At all stages fabricated components shall be handled with care to prevent any deformation, bending or twisting of the members or any of their parts or any damage to protective or decorative coatings.

Special lifting gear shall be provided by the Contractor for this purpose where necessary.

During transport, chains shall not be used to tie down hot-dipped galvanised or anodised items. Nylon strapping or similar shall be used during transport.

Loose parts shall be crated, tied or bolted in place to avoid loss or damage during transport. Temporary bolts and/or other material required to secure loose parts during transport shall be provided by the Contractor.

7 STORAGE AT SITE

Components shall be stored on the Site in such a manner as to prevent damage to members and/or coatings. Components shall be stored above ground on bearers or other supports and shall be kept free of dirt, grease and other foreign matter.

Components stored in the open shall be so arranged to be self-draining and shall be kept free of soil, ashes, vegetable matter and other corrosion-inducing substances.

8 ERECTION

The erection of the bridge barrier shall be a witness point. **Witness Point** After erection, the bridge barrier shall have smooth lines in both the horizontal and vertical planes which follow the design edgeline of the bridge.

The bridge barrier shall be erected with the base plates engaging the holding down bolts. The barrier may be temporarily supported with wedges or levelling nuts. If levelling nuts are used, a compressible neoprene washer shall be placed between the levelling nut and the base plate.

When the barrier is in position and properly aligned, a detailed survey of heights shall be undertaken by the Contractor prior to packing the bases with mortar. Packing of bases shall not proceed until the barrier alignment and levels have been accepted by the Administrator. **Hold Point 1**

The bases shall be tightly packed with cement mortar. Cement mortar shall consist of 1 part of Type GP cement to 3 parts of clean sharp sand with just sufficient water added to form a dry packing mortar.

When the mortar has cured, the temporary wedges shall be removed and the holding-down bolts shall be snug tightened. Gaps left by the temporary wedges shall be packed with cement mortar and the whole mortar pad trimmed neatly to the shape on the Drawings.