

Specification (Measurement)

**Transport and Main Roads Specifications
MRS80 Supply and Erection of Bridge Barrier**

July 2017

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1 Introduction

This Specification applies to the supply and / or transport and erection of steel, stainless steel and aluminium bridge barrier including bridge traffic barrier, balustrade and safety rails.

This Specification shall be read in conjunction with MRS01 *Introduction to Specifications*, MRS50 *Specific Quality System Requirements* and other Specifications as appropriate.

This Specification forms part of the Transport and Main Roads Specifications Manual.

2 Measurement of work

2.1 Standard Work Items

In accordance with the provisions of Clause 2.1.3 of MRS01 *Introduction to Specifications*, the Standard Work Items incorporated in this Specification are listed in Table 2.1.

Table 2.1 – Standard Work Items

Standard Item No.	Description	Unit of Measurement
Supply and Erection of Bridge Barrier		
72501	Supply and fabrication of bridge traffic rail, [<i>material type</i>]	m
72502	Supply and fabrication of bridge balustrade, [<i>material type</i>]	m
72503	Supply and fabrication of bridge safety rail, [<i>material type</i>]	m
72504	Transport and erection of bridge traffic rail, [<i>material type</i>]	m
72505	Transport and erection of bridge balustrade, [<i>material type</i>]	m
72506	Transport and erection of bridge safety rail, [<i>material type</i>]	m

2.2 Work Operations

Item 72501 **Supply and fabrication of bridge traffic rail, [*material type*]**

Item 72502 **Supply and fabrication of bridge balustrade, [*material type*]**

Item 72503 **Supply and fabrication of bridge safety rail, [*material type*]**

Work Operations incorporated in the above items include:

For steel:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of materials
- c) fabrication of structural steel components, and
- d) hot-dipped galvanising of steel components.

For aluminium:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of materials
- c) fabrication of aluminium components, and

- d) anodising of components of aluminium, where applicable.

For stainless steel:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of materials
- c) fabrication of stainless steel components, and
- d) pickling and passivating the welds, where applicable.

Item 72504 **Transport and erection of bridge traffic rail, [*material type*]**

Item 72505 **Transport and erection of bridge balustrade, [*material type*]**

Item 72506 **Transport and erection of bridge safety rail, [*material type*]**

Work Operations incorporated in the above items include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) transport to the Site
- c) unloading and storage at the Site
- d) erection of all components, and
- e) mortar packing of bases.

2.3 ***Calculation of quantities***

Bridge traffic rail, balustrade and safety rail shall be measured in linear metres, between the extreme outside edges of end posts.

2.3.1 **Supply of bridge barrier**

Where listed in the Principal Supplied Material List (Form C6827), bridge barrier shall be supplied by the Principal. Where not so listed, bridge barrier shall be supplied by the Contractor.

