

Specification (Measurement)

**Transport and Main Roads Specifications
MRS82 Bridge Deck Expansion Joints**

July 2021

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1 Introduction

This Specification applies to the supply and installation of bridge deck expansion joints.

This Specification shall be read in conjunction with MRS01 *Introduction to Specifications* and other Specifications as appropriate.

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

2 Measurement of works

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
Bridge Deck Expansion Joints		
72801	Bolted-in extruded aluminium strip seal expansion joints	lump sum
72802	Cast-in extruded aluminium strip seal expansion joints	lump sum
72804	Sealant joints with elastomeric concrete nosing	lump sum
72805	Strip seal expansion joints without deck anchors	lump sum
72806	Elastomeric compression seal expansion joints	lump sum

2.2 Work Operations

Item 72801 Bolted-in extruded aluminium strip seal expansion joints

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) removal of section of deck wearing surface
- c) sandblasting or scabbling concrete at joint
- d) supply and installation of anchor studs, nuts and washers
- e) supply and installation of aluminium strip
- f) supply and installation of epoxy mortar
- g) supply and installation of neoprene seal, and
- h) supply and installation of bolt channel filler.

Item 72802 Cast-in extruded aluminium strip seal expansion joints

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of aluminium strip
- c) supply and installation of anchor bolts, base fittings, sleeves and washers

- d) casting in of aluminium strip and anchors
- e) supply and installation of neoprene seal, and
- f) supply and installation of bolt recess filler.

Item 72804 Sealant joints with elastomeric concrete nosing

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) removal of section of deck wearing surface
- c) sandblasting or scabbling concrete at joint
- d) supply and installation of elastomeric nosing
- e) supply and installation of backing rod, and
- f) supply and installation of joint sealant.

Item 72805 Strip seal expansion joints without deck anchors

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) removal of section of deck wearing surface
- c) sandblasting or scabbling concrete at joint
- d) supply and installation of anchorage for retainer
- e) supply and installation of aluminium strip seal retainer
- f) supply and installation of Elastomeric nosing, and
- g) supply and installation of neoprene seal.

Item 72806 Elastomeric compression seal expansion joints

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) joint preparation as required to install the joint, and
- c) supply and installation of compression seal including its all the components.

