

# Main Roads Specification

## **MRS82**

### **Bridge Deck Expansion Joints**

**June 09**

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# Table of Contents

|                              | Page |
|------------------------------|------|
| 1 INTRODUCTION.....          | 1    |
| 2 MEASUREMENT OF WORKS.....  | 1    |
| 2.1 Standard Work Items..... | 1    |
| 2.2 Work Operations.....     | 1    |



# Bridge Deck Expansion Joints

## 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 Main Roads Specifications and Technical Standards Manual.

## 2 MEASUREMENT OF WORKS

### 2.1 Standard Work Items

In accordance with the provisions of Clause 2 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 |
|-------------------|---|---------------------|
| 8451              | Bolted-in aluminium bridge deck expansion joints.       | lump sum            |
| 8452              | Cast-in aluminium bridge deck expansion joints.         | lump sum            |
| 8453              | Fibre reinforced concrete bridge deck expansion joints. | lump sum            |

### 2.2 Work Operations

#### Item 8451 Bolted-in aluminium bridge deck 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 8452 Cast-in aluminium bridge deck 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 8453 Fibre reinforced concrete bridge deck expansion joints.

Work Operations incorporated in the above item include –

- a) Work Operations listed in Clause 2.1.5 of MRS 01 *Introduction to Specifications*;
- b) Removal of section of deck wearing surface;

- c) Sandblasting or scabbling concrete at joint;
- d) Supply and installation of anchor rods;
- e) Supply and installation of reinforcing steel;
- f) Supply and erection of formwork;
- g) Supply and application of wet-to-dry epoxy;
- h) Supply and placement of fibre reinforced concrete; and
- i) Supply and installation of neoprene seal.