

**Specification (Measurement)**

**Transport and Main Roads Specifications  
MRS84 Deck Wearing Surface**

**July 2019**

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## 1 Introduction

This Specification applies to the construction of an asphalt deck wearing surface on bridges.

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 covered by this Specification are listed in Table 2.1.

**Table 2.1 – Standard Work Items**

Standard Item No	Description	Unit of Measurement
<b>Deck Wearing Surface</b>		
73001	Bituminous waterproof membrane for bridges	m <sup>2</sup>
73002	Heavy Duty Dense graded asphalt corrector course, AC [ <i>nominal size</i> ] H mm mix	tonne
73003	Heavy Duty Dense graded asphalt surfacing layer, AC [ <i>nominal size</i> ] H mm mix	tonne
73004	Open graded asphalt surfacing layer, OG [ <i>nominal size</i> ] mm mix	tonne
73005	Tack Coat, 0.2 litres/m <sup>2</sup> residual bitumen	m <sup>2</sup>
73006	Heavy Duty Dense graded asphalt intermediate course, AC [ <i>nominal size</i> ] H mm mix	tonne
73007	Stone mastic asphalt surfacing layer, SMA [ <i>nominal size</i> ] mm mix	tonne

### 2.2 Work Operations

#### Item 73001 Bituminous waterproof membrane for bridges

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 all materials
- c) preparation of deck surface
- d) installation of joint sealant, where applicable
- e) application of primer, where applicable
- f) protection of kerbs, scuppers and rails
- g) application of bituminous waterproof membrane
- h) loading, hauling, spreading of cover aggregate
- i) drag brooming and rolling of cover aggregate, and

- j) removal and disposal of excess material.

**Item 73002 Heavy Duty Dense graded asphalt corrector course, AC [nominal size] H mm mix**

**Item 73003 Heavy Duty Dense graded asphalt surfacing layer, AC [nominal size] H mm mix**

**Item 73004 Open graded asphalt surfacing layer, OG [nominal size] mm mix**

Work Operations incorporated in the above items include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) complying with the Prequalified Asphalt Contractor and asphalt mix design registration requirements of MRTS30 *Asphalt Pavements*
- c) supply of asphalt, and
- d) laying, compacting and finishing the corrector course, intermediate course or surfacing layer, as appropriate.

**Item 73005 Tack Coat, 0.2 litres/m<sup>2</sup> residual bitumen**

Work Operations incorporated in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*, and
- b) supply and application of a tack coat.

**Item 73006 Heavy Duty Dense graded asphalt intermediate course, AC [nominal size] H mm mix**

**Item 73007 Stone mastic asphalt surfacing layer, SMA [nominal size] mm mix**

Work Operations incorporated in the above items include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) complying with the Prequalified Asphalt Contractor and asphalt mix design registration requirements of MRTS30 *Asphalt Pavements*
- c) supply of asphalt, and
- d) laying, compacting and finishing the corrector course, intermediate course or surfacing layer, as appropriate.

## **2.3 Calculation of quantities**

### **2.3.1 Bituminous waterproof membrane**

The quantity of bituminous waterproof membrane shall be calculated as:

- a) for insitu decks, the area of deck shown on the drawings, including relieving slabs, or
- b) for deck units without an insitu deck, the actual area of the bridge deck between kerbs, including the relieving slabs.

### **2.3.2 Asphalt**

The quantity of asphalt shall be calculated in accordance with Clause 2.3 of MRS30 *Asphalt Pavements*.

