

Main Roads Specification

MRS84

Deck Wearing Surface

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FEEDBACK

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Deck Wearing Surface

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 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 covered by this Specification are listed in Table 2.1.

Table 2.1 – Standard Work Items

Standard Item No.	Description	Unit of Measurement
	Deck Wearing Surface	
8601	Bituminous waterproof membrane for bridges.	m ²
8602	Dense graded asphalt corrector course, DG [<i>nominal size</i>] mm mix.	tonne
8603	Dense graded asphalt surfacing layer, DG [<i>nominal size</i>] mm mix.	tonne
8605	Open graded asphalt surfacing layer, OG [<i>nominal size</i>] mm mix.	tonne
8606	Tack Coat, 0.2 litres/m ² residual bitumen.	m ²

2.2 Work Operations.

Item 8601 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 8602 Dense graded asphalt corrector course, DG [*nominal size*] mm mix.

Item 8603 Dense graded asphalt surfacing layer, DG [*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 Approved Asphalt Manufacturer, Approved Asphalt Contractor and approved mix design requirements of MRS30 *Dense Graded Asphalt Pavements*;

- c) Supply of dense graded asphalt; and
- d) Laying, compacting and finishing the corrector course or surfacing layer, as appropriate.

Item 8605 Open graded asphalt surfacing layer, OG [*nominal size*] mm mix.

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*;
- b) Complying with the Approved Asphalt Manufacturer, Approved Asphalt Contractor and approved mix design requirements of MRS34 *Open Graded Asphalt Surfacing*;
- c) Supply of asphalt; and
- d) Laying, compacting and finishing the surfacing layer.

Item 8606 Tack Coat, 0.2 litres/m² 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.

2.3 Calculation of Quantities

2.3.1 Bituminous Waterproof Membrane

The quantity of bituminous waterproof membrane shall be calculated as –

- a) For in-situ decks, the area of deck shown on the drawings, including relieving slabs; or
- b) For deck units without an in-situ 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 *Dense Graded and Open Graded Asphalt*.