

Main Roads Specification

MRS31

Heavy Duty Asphalt

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Heavy Duty Asphalt

1 INTRODUCTION

This specification applies to the construction of dense graded asphalt layers for high load intensity low intervention pavements.

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 WORK

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
5563	Dense Graded Asphalt Pavement, DG14HS mix.	tonne
5573	Dense Graded Asphalt Pavement, DG14HP mix.	tonne
5574	Dense Graded Asphalt Pavement, DG20HM mix.	tonne

2.2 Work Operations

Item 5563 Dense graded asphalt pavement, DG14 HS mix.

Item 5573 Dense graded asphalt pavement, DG14 HP mix.

Item 5574 Dense graded asphalt pavement, DG20 HM mix.

Work Operations incorporated in the above items include –

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Standard Specifications*;
- b) Being a registered asphalt manufacturer or engaging a subcontractor who is a registered asphalt manufacturer;
- c) Having a registered mix design or obtaining a registered mix design under the asphalt supplier registration system;
- d) Manufacture of the dense graded asphalt in accordance with the registered mix design;
- e) Delivery of the dense graded asphalt to the Works;
- f) Being a registered asphalt paving organisation or engaging a registered asphalt paving organisation;
- g) Laying, compacting and finishing any corrector layer;
- h) Laying, compacting and finishing the production asphalt;
- i) Protection of the compacted asphalt layer from moisture ingress;
- j) Providing an allowance for production asphalt used in temporary ramps and asphalt lost from cut-offs from joints and spillages;
- k) Provision of a laboratory and compliance testing facilities;
- l) Sampling, testing and quality assurance requirements;

- m) Delivery of the results for all tests and inspections to the Superintendent within the nominated time; and
- n) Removal and disposal of any nonconforming material or product, or any material or product not utilised for a reduced level of service, and replacement with conforming material or product.

2.3 Calculation of Quantities

The quantity of asphalt shall be determined in accordance with Clause 2.3.3 of MRS30 *Dense Graded and Open Graded Asphalt*.

3 UTILISATION OF A REJECTED LOT FOR A REDUCED LEVEL OF SERVICE

The requirements for utilisation of a rejected lot for a reduced level of service shall be in accordance with those stated in Clause 3 of MRS30 *Dense Graded and Open Graded Asphalt* except that –

- a) lots with a minimum characteristic value of relative compaction less than the specified compaction standard but $\geq 92.0\%$ shall be accepted for utilisation at a reduced level of service in accordance with Clause 12 of MRTS31; and
- b) the reduced value of lots with a minimum characteristic value of relative compaction less than 92.0% that have been accepted by the Administrator for utilisation at a reduced level of service shall be determined in accordance with Table 3.

Table 3 – Reduction in Value for Reduced Compaction

Asphalt Mix Type	Percentage Reduction in Value
DG14HS	$3.33 \times (92.5\% - CV)$
DG14HP ≥ 50 mm layer thickness	$3 \times (93.0\% - CV)$
DG20HM	$3 \times (93.0\% - CV)$

CV = characteristic value of relative compaction (%)

4 ADDITIONAL PAYMENT FOR A HIGHER STANDARD OF SURFACE EVENNESS

The requirements for additional payment for a higher standard of surface evenness shall be in accordance with those stated in Clause 4 of MRS30 *Dense Graded and Open Graded Asphalt*.