

Specification (Measurement)

**Transport and Main Roads Specifications
MRS58 Geosynthetics for Subgrade and Pavement
Reinforcement**

July 2022

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1 Introduction

This Specification applies to the material and construction requirements for geosynthetics used in subgrade and pavement reinforcement applications.

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 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
Geosynthetics for Subgrade and Pavement Reinforcement		
43504	Supply and placement of pavement geosynthetic [geogrid geocomposite] [Type 1 Type 2]	m ²

2.2 Work Operations

Item 43504 Supply and placement of pavement geosynthetic [geogrid | geocomposite] [Type 1 | Type 2]

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 pavement geosynthetic [geogrid | geocomposite] [Type 1 | Type 2] including allowances for overlaps, joints, and wastage
- c) loading, hauling, delivery and storage of the geosynthetic in a manner that prevents exposure to sunlight and moisture
- d) any additional subgrade / pavement surface preparation Works which are prescribed in the Contract, Drawings and/or *Supplier's Installation Guidelines*
- e) where applicable, supply and placement of non-woven geotextile underneath geogrid
- f) dispensing and placement of geosynthetic including all lapping and jointing requirements
- g) where applicable, pinning and nailing of the geosynthetic
- h) rectification of any folded and/or wrinkled geosynthetic
- i) removal and replacement of any damaged geosynthetic
- j) removal and disposal of excess geosynthetic from the Site, and
- k) all associated material compliance testing.

The preparation of the underlying subgrade and/or pavement surface shall be undertaken in accordance with the relevant Measurement and Technical Specifications.

2.3 Calculation of Quantities

The measured quantity for payment shall be the pavement area installed (in m²) excluding all overlaps, joints and wastage.

