

Superseded

Specification (Measurement)

MRS100 High Strength Geosynthetic Reinforcement in Road Embankments

July 2019

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1 Introduction

This Specification applies to the supply and installation of geosynthetic reinforcement to be used in road embankments.

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 Specification Manual.

2 Measurement of work

2.1 Standard Work Items

In accordance with the provisions of Clause 2.1.3 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
High Strength Geosynthetic Reinforcement in Road Embankments		
33201	Supply and Installation of High Strength Geosynthetic Reinforcements	m ²
33202	Supply and Placing of selected material above and below each layer of Geosynthetic Reinforcements	m ³

2.2 Work Operations

Work Operations included in the Standard Work Items are specified in the relevant clause adjacent to each Standard Work Item listed in Table 2.1.

Item 33201 Supply and Installation of High Strength Geosynthetic Reinforcements

Work Operations incorporated in the above include the following as appropriate:

- Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- supply, delivery and handling of geosynthetic including allowance for lapping
- installation of geosynthetic, including lapping, joining and anchor length, and
- testing of the geosynthetic with test certificates provided.

Item 33202 Supply and Placing of selected material above and below each layer of Geosynthetic Reinforcements

Work Operations incorporated in the above include the following as appropriate:

- Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- loosening insitu material
- stepping the ground surface
- supplying and placing fill material from stockpiles or borrow areas on or off the Site or general excavation on the Site as required
- separation of fill material into embankment zones where specified

- f) spreading fill material
- g) compacting fill material
- h) sampling and testing
- i) finishing batters, and
- j) trimming of subgrade to tolerance.

2.3 Measurement

Payment will be made for all activities associated with completing the work detailed in MRTS100 in accordance with Pay Items Item 33201 and Item 33202. A lump sum price for this item will not be accepted.

If any item for which a quantity of work is listed in the Schedule of Rates has not been priced by the Contractor, it will be deemed that due allowance has been made in the prices of other items for the cost of the activity which has not been priced.

2.4 Calculation of quantities

For high strength geosynthetic reinforcement, the unit of measurement is the plan square metre of reinforcement placed. The Schedule Rate includes the supply, testing and installation of the reinforcement.

For selected fill material, the unit of measurement is the cubic metre measured in place of the selected material immediately above and below each layer of geosynthetic reinforcements. The width, depth and length must be taken as shown on the Drawings or as approved by the Administrator, and no account is taken of the allowable placement tolerances.

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