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**Specification (Measurement)**

# **Transport and Main Roads Specifications MRS15 Noise Fences**

**July 2017**

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## 1 Introduction

This Specification applies to the design and construction of noise fences.

This Specification shall be read in conjunction with Specifications MRS01 *Introduction to Specifications*, MRS50 *Specific Quality System Requirements* 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 2.1.3 of MRS01 *Introduction to Specifications* and Technical 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>Noise Fences</b>		
50501	Supply of noise fence, [ <i>height</i> ] m high	m
50502	Construction of noise fence, [ <i>height</i> ] m high	m
50503	Supply and construction of noise fence, [ <i>height</i> ] m high	m
50504	Design, supply and construction of noise fence, [ <i>height</i> ] m high	m
50505	Removal and salvage of existing noise fences, [ <i>height</i> ] m high	m

### 2.2 Work Operations

#### Item 50501 Supply of noise fence, [*height*] m high

Work operations included in the above item include:

- Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*, and
- supply of all materials to site.

#### Item 50502 Construction of noise fence, [*height*] m high

Work operations included in the above item include:

- Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- surveying and setting out of the noise fences to line and level
- excavation of footings
- placing, compacting and finishing concrete in footings
- disposal of excess material; including spoil from excavations, sawn timber and plywood off-cuts, etc.
- assembly and erection of noise fences
- cutting and treating cut areas of plywood or timber panels as required
- construction of drainage slots and other drainage structures where specified, and

- i) backfill against base of noise fence, including compaction and trimming of backfill material.

**Item 50503      Supply and construction of noise fence, [height] m high**

Work operations included in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) supply of all materials to site
- c) surveying and setting out of the noise fences to line and level
- d) fabrication of posts and other items shown on the drawings, including hot dipped galvanising where specified
- e) excavation of footings
- f) placing, compacting and finishing concrete in footings
- g) disposal of excess material; including spoil from excavations, sawn timber and plywood off- cuts, etc.
- h) assembly and erection of noise fences
- i) cutting and treating cut areas of plywood panels or treated timber as required
- j) construction of drainage slots and other drainage structures where specified, and
- k) backfill against base of noise fence, including compaction and trimming of backfill material.

**Item 50504      Design, supply and construction of noise fence, [height] m high**

Work operations included in the above item include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) certified (RPEQ) design of noise fence
- c) supply of all materials to site
- d) surveying and setting out of the noise fences to line and level
- e) fabrication of posts and other items shown on the drawings, including hot dipped galvanising where specified
- f) excavation of footings
- g) placing, compacting and finishing concrete in footings
- h) disposal of excess material; including spoil from excavations, sawn timber and plywood off- cuts, etc.
- i) assembly and erection of noise fences
- j) cutting and treating cut areas of plywood panels or treated timber as required
- k) construction of drainage slots and other drainage structures where specified, and
- l) backfill against base of noise fence, including compaction and trimming of backfill material.

**Item 50505      Removal and salvage of existing noise fences, [height] m high**

Work Operations incorporated in the above items include:

- a) Work Operations listed in Clause 2.1.5 of MRS01 *Introduction to Specifications*
- b) dismantling and removal of salvageable components of noise fence as listed
- c) demolition of existing noise fence as listed
- d) disposal of all non-salvageable and demolished material
- e) cutting posts/footings 0.5 m below ground level and backfilling
- f) backfilling hollow post sections with 'lean mix'
- g) transporting salvaged material to storage site, and
- h) safe storage of salvaged material at storage site.

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