

# Main Roads Specification

## **MRS15**

### **Noise Fences**

**June 10**

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# Noise Fences

## 1 INTRODUCTION

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

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 Work Item No.	Description	Unit of Measurement
	<b>Noise Fences</b>	
6211	Supply of noise fence, [height] m high.	m
6212	Construction of noise fence, [height] m high.	m
6213	Supply and construction of noise fence, [height] m high.	m
6214	Design, supply and construction of noise fence, [height] m high.	m
6215	Removal and salvage of existing noise fences, [height] m high.	m

### 2.2 Work Operations

#### Item 6211 Supply 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*; and
- b) Supply of all materials to site.

#### Item 6212 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) Surveying and setting out of the noise fences to line and level;
- c) Excavation of footings;
- d) Placing, compacting and finishing concrete in footings;
- e) Disposal of excess material; including spoil from excavations, sawn timber and plywood off-cuts, etc;
- f) Assembly and erection of noise fences;
- g) Cutting and treating cut areas of plywood or timber panels as required;
- h) 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 6213 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 6214 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 6215 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.