

Specification (Measurement)

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

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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
Noise Fences		
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:

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

Item 50502 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) drilling or excavation of footings
- d) placing, compacting and finishing concrete in footings
- e) construction of concrete sill beams, drainage slots and other drainage structures where specified
- f) cutting and treating cut areas of plywood or timber panels as required
- g) assembly and erection or construction of noise fences
- h) backfill against base of noise fence, including compaction and trimming of backfill material

- i) disposal of excess material; including spoil from excavations, sawn timber, masonry block and plywood and composite panel off-cuts, and so on, and
- j) painting of noise fence.

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
- e) drilling or excavation of footings
- f) placing, compacting and finishing concrete in footings
- g) construction of concrete sill beams, drainage slots and other drainage structures where specified
- h) cutting and treating cut areas of plywood panels or treated timber as required
- i) assembly and erection or construction of noise fences
- j) backfill against base of noise fence, including compaction and trimming of backfill material
- k) disposal of excess material; including spoil from excavations, sawn timber, masonry block and plywood and composite panels off-cuts, and so on, and
- l) painting of noise fence.

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
- f) drilling or excavation of footings
- g) placing, compacting and finishing concrete in footings
- h) construction of concrete sill beams, drainage slots and other drainage structures where specified
- i) cutting and treating cut areas of plywood panels or treated timber as required
- j) assembly and erection or construction of noise fences
- k) backfill against base of noise fence, including compaction and trimming of backfill material

- l) disposal of excess material; including spoil from excavations, sawn timber, masonry block and plywood and composite panel off-cuts, and so on, and
- m) painting of noise fence.

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.

