

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.

Noise fences are constructed on Engineering structures (retaining walls, bridges, road safety barriers), and earth mound are included in this Specification. However, Engineering structures (retaining walls, bridges, road safety barriers) and earth mound are included under separate relevant Specifications / pay items.

Noise Fences whose primary function is to act as earth retaining structures are not included within this Specification.

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*, 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
50506	Construction of noise fence, [<i>height</i>] m high on retaining wall	m
50507	Construction of noise fence, [<i>height</i>] m high on bridge	m
50508	Construction of noise fence, [<i>height</i>] m high on concrete road safety barrier	m
50509	Supply and construction of noise fence, [<i>height</i>] m high on retaining wall	m

Standard Item No.	Description	Unit of measurement
50510	Supply and construction of noise fence, [<i>height</i>] m high on bridge	m
50511	Supply and construction of noise fence, [<i>height</i>] m high on concrete road safety barrier	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 both sides including panels and posts.

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 both sides including posts and panels.

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 both sides including posts and panels.

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.

Item 50506 Construction of noise fence, [height] m high on retaining walls

Item 50507 Construction of noise fence, [height] m high on bridges

Item 50508 Construction of noise fence, [height] m high on concrete road safety barriers

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) cutting and treating cut areas of plywood or timber panels as required
- d) preparation of engineering structure surface
- e) erection of all noise fence posts, including assembly of any individual components
- f) provision of temporary supports
- g) packing mortar under base plate
- h) assembly and erection of noise fence panels
- i) disposal of excess material; panels off-cuts, and so on, and
- j) painting of noise fence both sides including posts and panels.

Item 50509 Supply and construction of noise fence, [*height*] m high on retaining walls

Item 50510 Supply and construction of noise fence, [*height*] m high on bridges

Item 50511 Supply and construction of noise fence, [*height*] m high on road safety barriers

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) fabrication of posts and other items shown on the drawings
- d) surveying and setting out of the noise fences to line and level
- e) cutting and treating cut areas of plywood panels or treated timber as required
- f) preparation of engineering structure surface
- g) erection of all noise fence posts, including assembly of any individual components
- h) provision of temporary supports
- i) packing mortar under base plate
- j) assembly and erection of noise fence panels
- k) disposal of excess material; panels off-cuts, and so on, and
- l) painting of noise fences both sides including posts and panels.

3 Payment

3.1 Noise fence is constructed on Engineering structure (retaining wall, bridge, road safety barrier)

Payment for the noise fence on the engineering structure (retaining wall, bridge, road safety barrier) and earth mound is covered under this specification. Payment for the engineering structure (retaining wall, bridge, road safety barrier), including any additional reinforcing and the provision of anchoring bolts for posts, is included in the payment of the engineering structure (retaining wall, bridge, road safety barrier).

