Specification (Measurement)

Transport and Main Roads Specifications
MRS15 Noise Fences

March 2019
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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

<table>
<thead>
<tr>
<th>Standard Item No.</th>
<th>Description</th>
<th>Unit of measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>50501</td>
<td>Supply of noise fence, [height] m high</td>
<td>m</td>
</tr>
<tr>
<td>50502</td>
<td>Construction of noise fence, [height] m high</td>
<td>m</td>
</tr>
<tr>
<td>50503</td>
<td>Supply and construction of noise fence, [height] m high</td>
<td>m</td>
</tr>
<tr>
<td>50504</td>
<td>Design, supply and construction of noise fence, [height] m high</td>
<td>m</td>
</tr>
<tr>
<td>50505</td>
<td>Removal and salvage of existing noise fences, [height] m high</td>
<td>m</td>
</tr>
</tbody>
</table>

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.