

702.01 DESCRIPTION

This section covers the supply and installation of steel beam guardrail at locations shown on the drawings or as directed by the Engineer. Guardrails are steel beam fences consisting of rails, posts, anchorages, terminals ends and other accessories associated with its fitting and installation.

702.02 MATERIAL

(a) All materials shall be supplied by the Contractor.

(b) Rails
Guardrail shall be manufactured from steel and be galvanised in accordance with AS1627. Dimensions of guardrail and terminal section shall be as shown on the drawings. Guardrail shall be supplied together with all bolts, nuts, washers and fixing materials. All bolts, nuts, and washers shall be galvanised in accordance with AS1627.

(c) Posts

Guardrail posts shall be either of steel or timber, as specified by the Engineer.

(i) Steel Post
Steel posts shall be galvanised and be supplied in lengths as shown on the drawings.

(ii) Timber Posts
Timber posts and blocks shall be supplied to the dimensions shown on the drawings. Timber posts and blocks shall be of timber dried to equilibrium moisture content and sawn from approved species of hardwood or pine timber pressure treated.

All timber shall be straight and sound and free from insect life, dead timber, cracks, gum veins and pockets, wavy edges and other imperfections. The timber shall be sawn parallel to the grain and exposed knots shall be sound, tight, well spaced and shall not exceed 25mm in size in any face.

702.03 INSTALLATION

Prior to installation, the Contractor shall confirm with the Engineer the required location and length of all guard fence.

(a) Posts
Posts shall be installed to a depth not less than that shown on the drawings. Where posts are driven into the ground this shall be done by methods approved by the Engineer. All post holes in rock shall have a 75mm clearance from the back of the post to the face of the hole. Post holes in rock shall be backfilled with graded granular material approved by the Engineer. Other post holes shall be backfilled with selected earth, free of rock. The backfilling shall be firmly compacted in layers not exceeding 100mm compacted thickness. Where posts are located in areas to be paved with concrete or premixed bituminous material the backfilling of the post shall be finished 50mm below the under side of such paving and the remaining depth of the holes shall be filled and compacted with material similar to the surrounding material.

Surplus excavated material remaining after the guard fence has been constructed shall be disposed off the site by the Contractor.