

ITEM 615.8005 08 - ORNAMENTAL ALUMINUM HANDRAIL

DESCRIPTION

This work shall consist of furnishing and installing ornamental aluminum handrail in accordance with the contract documents and as directed by the Engineer.

MATERIALS

Aluminum shall meet the requirements of *Section 715-04 Wrought Aluminum* with alloy and temper designation 6063-T5. All handrail components shall be of uniform quality and condition free from cracks, blow holes, porous places, hard spots and shrinkage defects.

The handrail shall meet the requirements established by the Occupational Safety and Health Administration which states that the railing must be capable of withstanding a load of "at least 90 kg applied in any direction at any point on the top rail".

Paint shall meet the requirements of *Section 708-07 Paint for Aluminum Surfaces*. The top coat shall meet the requirements of *Section 708-05 Standard Paint Colors* except the color shall be black meeting Federal Color Standard 595, #37030.

Grout shall meet the requirements of *Section 701-05 Concrete Grouting Material*.

CONSTRUCTION DETAILS

The handrail shall be fabricated as shown on the plans. The contractor shall submit three copies of the catalog cut or detailed working drawings to the Engineer for approval by the Regional Landscape Architect. No fabrication work shall begin until the handrail is approved.

The handrail components shall be welded together. The weld shall completely surround the connection. The weld shall be smooth and free from sharp edges.

The handrail shall be fabricated and installed true to line and grade with the post set vertical.

The paint shall be applied at the point of manufacture. If touch up is required in the field the entire assembly shall be repainted to the satisfaction of the Engineer.

The post shall be anchored as shown on the plans.

All parts shall be protected from damage. Any damaged parts shall be replaced by the contractor at their expense.

METHOD OF MEASUREMENT

This work will be measured as the number of meters of ornamental aluminum handrail to be satisfactorily furnished and installed. Measurement will be made along the top rail of the erected handrail.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.