

**ITEM 607.1001 39 - NEW ROLL-UP GATES AND RECONDITIONING OF EXISTING ROLL-UP GATES**

**DESCRIPTION.** The work shall consist of furnishing and installing new roll-up door curtains and reconditioning existing roll-up door openings at the locations indicated in the contract documents. Field verify each of the openings to determine the extent of rehabilitation components required to complete rehabilitation.

**MATERIALS.**

Curtain. Curtain shall be formed of 16 gauge. Type 316 Stainless steel interlocking flat-faced slats 67 mm high and 22 mm deep. Door construction to be designed to satisfy a wind load of 1.436kPa in the fully closed position. Curtain to be reinforced with a bottom bar consisting of stainless steel angles.

Counterbalance Assembly. Spring barrel or shaft shall be galvanized steel pipe of sufficient strength to ensure deflection not exceeding 2.5 mm per meter of span. Barrel of shaft shall house oil tempered, helically wound steel spring, and rotate on grease-sealed ball or roller-bearing units. Springs shall be adjustable from outside.

Curtain Jamb Guides and Wall Angles. Angles shall be stainless steel . Guides to be assembled with stainless steel bolts placed not over 0.914 meters on centers. Depth of guides shall provide adequate slat penetration to satisfy specified windloading.

Brackets. Provide stainless steel plate designed to form end closure and provide required support for the door.

Endlocks. Malleable iron castings galvanized after fabrication, secured to curtain slats with galvanized rivets. Provide locks on alternate curtain slats for curtain alignment and resistance against lateral movement.

Windlocks. Malleable iron castings galvanized after fabrication, secured to curtain slats with galvanized rivets. Provide locks on alternate curtain slats for curtain alignment and resistance against lateral movement.

Bottom Bar. Consisting of two stainless steel angles to suit type of curtain slats.

Operators. Operators shall be water-tight, dust-tight, and corrosive resistant, bracket mounted operator assembly with galvanized chain. All operators and electric accessories shall be enclosed in full guarded NEMA 4x enclosures. Door limit switches and auxiliary contacts feed the Programmable Logic Controller remote 120 V inputs in the I/O center located in the MCC, for each chamber's electric room.

**CONSTRUCTION DETAILS.** Installation. Installation of curtain, jamb guides, enclosures, motors and operators shall be as per manufacturer's recommendations. Provide and install all required framing, anchors and inserts to suit conditions.

**METHOD OF MEASUREMENT.** The work will be measured on a lump sum basis.

**BASIS OF PAYMENT.** The lump sum price bid shall include the cost of furnishing all labor, materials and equipment necessary to satisfactorily complete the work. No payment will be made for repairs or replacement made necessary during the construction operation.

*Payment will be made under:*

<u>Item No.</u>	<u>Description</u>	<u>Pay Unit</u>
607.1001 39	New Roll-Up Gates and Reconditioning of	Lump Sum

**ITEM 607.1001 39 - NEW ROLL-UP GATES AND RECONDITIONING OF EXISTING ROLL-UP GATES**

Existing Roll-Up Gates.