

ITEM 607.0462--09 - CHAIN-LINK CANTILEVER SLIDE GATE SYSTEM SINGLE
LEAF 8000 mm OPENING, 1800 mm HIGH

DESCRIPTION

General:

This work shall consist of furnishing and erecting a chain link cantilever slide gate system manually operated of the type and size, and at the location shown on the plans. Construction of the gate shall be done in reasonable close range with the lines and grades shown on the plans or established by the Engineer.

Submittals:

- A. Shop Drawings: Layout of gate with dimensions, details, and finishes of components, accessories, and post foundations.
- B. Product Data: Manufacturer's catalog cuts indicating material compliance and specified options.
- C. Samples: Color selections for polyester finishes. If requested, samples of materials (e.g., fabric, wires, and accessories).

Quality Assurance:

- A. Qualifications: Manufacturers shall have a minimum of five years experience manufacturing chain-link fencing and gates.
- B. Special Warranty: The Contractor shall obtain a five-year warranty from the manufacturer with the Department of Transportation named as the owner. The manufacturer's warranty shall cover the cantilever slide gate system against failure resulting from normal use over a period of five years from date of purchase. Failure is defined as any defect in manufacturing that prevents the gate from operating in a normal manner. All warranty documentation, including but not limited to operating instructions, schematics, parts lists and/or repair information shall be turned over to the Engineer.

MATERIALS

- A. Manufacturer:

Anchor Fence/Master Halco Inc.,
Baltimore, MD
Phone (410) 676 - 2744
Fax (410) 676 - 7098

Boundary Fence &
Railing Systems, Inc.
131-02 Jamaica Ave.
Richmond Hill, NY 11418
(718) 847- 3400

Ameristar Fence Products
1555 North Mingo Road
Tulsa, OK 74116
(918) 835 - 0898

Or equal as approved by the Engineer.

- B. Gate Frames:

Fabricate chain link cantilever slide gates in accordance with ASTM F 1184, Type II, Class

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2, using 50 mm square aluminum members, ASTM B 221, alloy and temper 6063-T6, weighing 1.39 kg/m. Weld members together forming rigid one-piece frame integral with top track (no substitution). Frame members to be square, straight and true to within (1 mm) over a 12200 mm span in an un-stressed state. Frame sizes over 8230 mm in length shall be shipped in 2 parts and field spliced with special attachments provided by the manufacturer.

For gate leaf size 9144 mm, weld an additional 50 mm square lateral support rail adjacent to top horizontal rail. Bottom rail shall consist of 50 mm x 100 mm aluminum member weighing 2.54 kg/m.

Gate Leaf Sizes

Cantilever Support (overhang)

7010 mm to 9144 mm

3657 mm

- C. Gate Frame Finish: Natural Aluminum
Chain-Link Filter Finish: Aluminized - ASTM A 491
- D. Bracing: Provide diagonal adjustable length truss rods of 9.5 mm galvanized steel, in each panel of gate frames.
- E. Top track/rail: Enclosed combination one-piece track and rail, aluminum extrusion with weight of 5.54 kg/m. Track to withstand reaction load of 907.2 kg.
- F. Truck Assembly: Swivel type, zinc die cast, with 4 sealed lubricant ball bearing rollers, 50 mm in diameter by 14 mm in width, and 2 side rolling wheels to ensure truck alignment in track (no substitution). Mount trucks on post brackets using 22 mm diameter ball bolts with 13 mm shank. Truck assembly to withstand same reaction load as track, 907.2 kg.
- G. Gate hangers, latches, brackets, guide assemblies, and stops: Malleable iron or steel, galvanized after fabrication. Provide positive latch with provisions for padlocking.
- H. Bottom guide wheel assemblies: Each assembly shall consist of two 75 mm diameter rubber wheels, straddling bottom horizontal gate rail, allowing adjustment to maintain gate frame plumb and in proper alignment. Attach one assembly to each guide post.
- I. Gates Posts:
Galvanized steel 101.6 mm OD schedule 40 pipe, ASTM F 1083, weighing 13.6 kg/m. Provide 1 latch post 4 support posts for double slide gates.

Finish to match fence.

Setting Materials:

Portland cement concrete shall conform to the requirements of NYSDOT Standard Specification Section 501. Minimum 28 day compressive strength of 20 MPa.

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CONSTRUCTION DETAILS:

Examination:

- A. Verify that areas to receive slide gate system are completed to final grades and elevations.
- B. Verify that areas to assure sufficient space to receive gate in open position, gate and overhang.

Installation:

- A. Install gate posts in accordance with manufacturer's instructions.
- B. Concrete set gate posts: Drill holes in firm, undisturbed or compacted soil as shown on the plans. Place concrete around posts in a continuous pour, tamp for consolidation. Trowel finish around post and slope to direct water away from posts. Check each post for vertical and top alignment, and maintain in position during placement and finishing operations.
- C. Gate Installation:
 - 1. Install gates plumb, level, and secure for full opening without interference.
 - 2. Attach hardware in such way to prevent unauthorized removal.
 - 3. Adjust hardware for smooth operation.
- D. Cleaning:

Clean up debris and unused material, and remove from the site.

Gates are designed for manual operation.

METHOD OF MEASUREMENT

Chain-Link Cantilever Slide Gate System will be measured for payment on an each basis for each sliding gate system furnished and installed in accordance with the Contract Documents and as directed by the Engineer.

BASIS OF PAYMENT

The unit price bid for all the work encompassed by this Specification shall include the furnishing of cantilever sliding gate, posts and accessories, setting materials and all labor, materials, tools, equipment to complete the work. No payment will be made for any repair work necessitated by damage caused by the contractor's operations.