

## Aluminum Slide Gate Specifications

### 1. Scope:

Specification for the materials and construction requirements for chain link cantilever slide gates with enclosed aluminum track and hardware manufactured to comply with ASTM F-1184, ASTM F-2200, and Underwriter's Laboratory UL-325 safety standards.

### 2. Manufacturer:

Sharon Fence Company

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3. **Warranty:** Sharon Fence warrants this product for a period of 5 years when installed in accordance with manufacturers standards and maintained in proper manner.

### 4. General:

**A. Gate Frame:** The entire frame and support members shall be manufactured with the same aluminum material, alloy and temper 6061-T6 (ASTM 1184). Fabricate chain link cantilever slide gates in accordance with ASTM F-1184, Type II, Class 2, using 2 inch square aluminum outside vertical members (1.10 lb/ft). Members are welded together with a continuous top track (3.83 lb/ft) and bottom rail to form a rigid one-piece frame. Vertical interior support uprights will be positioned equally throughout the frame structure.

| Standard Opening | Overall Gate Length | Bays |
|------------------|---------------------|------|
| 15 ft. to 18 ft. | 26' 3"              | 4    |
| 19 ft. to 22 ft. | 31' 3"              | 5    |

For 15 ft. – 22 ft. opening gates, the vertical interior support uprights will be 1.5 inch square aluminum (6061-T6) tubing (0.809 lb/ft). The bottom rail shall be a continuous one-piece 2 inch square aluminum (6061-T6) tube (1.10 lb/ft).

| Standard Opening | Overall Gate Length | Bays |
|------------------|---------------------|------|
| 23 ft. to 26 ft. | 37' 3"              | 6    |
| 27 ft. to 30 ft. | 42' 3"              | 7    |

For 23 ft. – 30 ft. opening gates, the vertical interior support uprights will be 2-inch square aluminum (6061-T6) tubing (1.10 lb/ft). The bottom rail shall be a continuous one-piece 2-inch by 4-inch rectangular tube (1.69 lb/ft). An additional 2-inch square support rail shall be welded adjacent to the top track horizontal rail. The cantilever overhang will be 40% or greater for any given opening size.

**B.** There will be two truck assemblies (secured to the guide posts) which operate inside the top track. They shall be swivel type zinc die cast with 4 sealed and lubricated ball bearing rollers (2" dia., 9/16" width) and two side rollers (front and back) to assure alignment in the top track.

**C.** The top track and rail is an enclosed combination one-piece aluminum (6061-T6) extrusion weighing 3.83 lb/ft. Top track to withstand a 2,000 lb. reaction load.

**D.** Chain link fabric shall be installed over the entire gate length (UL-325) which will create a universal design (gate can be used for right or left hand applications). Fabric will be attached securely with tension bars that are attached on either frame end by tension bands. High tensile wire will provide additional fabric support across the top and bottom of the gate structure.

**E.** Diagonal bracing shall be 1"x2" aluminum (6061-T6) tubing (0.809 lb/ft) welded to the uprights to form a rigid bracing system that does not require field adjustment.

**F.** Bottom guide wheel assemblies have two 3" dia. rubber wheels (with protective covers – UL325) straddling the bottom horizontal gate rail. One assembly shall be attached to each guide post.

**G.** Gate post brackets, latch, and keepers are galvanized steel.

**H.** Gate posts shall be 4" OD schedule 40 pipe (9.1 lb/ft). Two support posts and 1 latch post shall be installed.

5. **Installation:** Gate posts shall be set in concrete (3000 psi compressive strength). The footing shall be 16" in diameter with depth approximately 6" deeper than the post bottom. Deeper footing may be required in areas with loose or soft soil. Set post bottom at least 36" below the surface. Posts must be plumb. Install gates plumb, level and secure for the full opening size making sure they move free of obstructions. Adjust hardware for smooth operation.