



SECTION 10 22 13

QWIK-FENCE® WIRE MESH PARTITIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Qwik-Fence® wire mesh assemblies.
 - 1. Swinging doors.
 - 2. Sliding doors.
 - 3. Cage ceilings.

1.2 RELATED SECTIONS

- A. Section 08 71 53 - Security Door Hardware.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Installation methods.
- C. Shop Drawings: Provide plan of panel and door lay-out with elevations indicating panel height and relation to supporting and enclosing structure. Provide details of door construction and hardware location.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 10 year experience manufacturing similar products.
- B. Installer Qualifications: Minimum 2 year experience installing similar products.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handling: Handle materials to avoid damage.

1.6 PROJECT CONDITIONS

- A. Do not install products under environmental conditions outside manufacturer's recommended limits.

- B. If stored outside product should be protected against the elements.

1.7 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Folding Guard, which is located at 5858 West 73rd Street, Bedford Park, IL 60638; Tel: 800.622.2214; Fax: 708.325.0450; Email: sales@foldingguard.com; Web: foldingguard.com
- B. Web: <http://www.foldingguard.com>.
- C. Substitutions: Not permitted.
- D. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 WIRE MESH PARTITIONS

- A. Partition Assembly: Model Qwik-Fence[®] as manufactured by Folding Guard.
- B. Panels shall be welded at each intersection of the No. 8 gauge (0.160 inch) (4 mm) steel wires (more than 500 welds in a 4 feet (1.2 m) by 8 feet (2.4 m) panel) in a 1-1/2 inches (38 mm) by 3 inches (76 mm) grid openings, with 1-1/2 inch (38 mm) bends at 90 degrees on the top and bottom for increased rigidity. Furnished as standard in a maintenance-free galvanized finish, with the ability to be trimmed in the field to accommodate changes in dimensions, obstructions or conveyor or lift systems with no paint touch-ups or unraveling wires. Optional powder coat finish is available; specify as required.
- C. Qwik-Fence[®] wire mesh partitions shall be supported by line posts constructed of 2 inches (51 mm) by 2 inches (51 mm) by 14 gauge galvanized steel tubing, welded to a steel base plate 1/4 inch (6.4 mm) by 2 inches (51 mm) by 6 inches (152 mm), complete with two holes provided for anchoring. Posts shall be furnished with pre-drilled pilot holes for ease of panel installation. Furnished as standard in a maintenance-free galvanized finish. Optional powder coat finish is available; specify as required.
 - 1. Posts shall be furnished at the one of the selected standard heights:
 - a) 8'-0" (2.4m) high system.
 - b) 10'-0" (3.1m) high system.
 - c) 12'-0" (3.7m) high system.
 - d) Custom height (specify _____).
 - 2. Attachment of wire mesh partitions to line posts to be accomplished by six (6) panel clips and six (6) #12-14 by 1 inch (25.4 mm) zinc plated self-drilling/self-tapping screws.
- D. Sliding door frame shall be 1/2 inch (12.7 mm) by 1-1/4 inches (31.8 mm) by 1/2 inch (12.7 mm) 14 gauge U-Channel on the horizontal members, with 5/8 inch (15.9 mm) by 1-1/4 inch (31.8 mm) by 5/8 inch (15.9 mm) steel c-channel on the vertical members (full frame). Two (2) horizontal reinforcing bars shall consist of four (4) steel u-channels 3/8 inch (9.5 mm) by 1 inch (25.4 mm) x 3/8 inch (9.5 mm)

securely riveted through the wire mesh. Entire frame shall be riveted and clenched, providing a unitized frame. Door shall be equipped with a heavy box track, two 2-1/8 inch (54mm) diameter four-wheel ball bearing hangers, and bottom guide channel.

1. Door shall be furnished as standard with a heavy duty service mortise type cylinder lock operated by a key from outside, and a recessed thumb-turn actuation from inside.
2. Additional options to be specified as required: Padlock Hasp, Card Reader or Magnetic Lock.

E. Hinged door frame shall be 1/2 inch (12.7 mm) by 1-1/4 inches (31.8 mm) by 1/2 inch (12.7 mm) 14 gauge u-channel on the horizontal members, with 5/8 inch (15.9 mm) by 1-1/4 inches (31.8 mm) by 5/8 inch (15.9 mm) steel c-channel on the vertical members (full frame). Two (2) horizontal reinforcing bars shall consist of four (4) steel u-channels 3/8 inch (9.5 mm) by 1 inch (25.4 mm) x 3/8 inch (9.5 mm) securely riveted through the wire mesh.

F. Additional diagonal stiffeners shall consist of two steel u-channels 3/8 inch (9.5 mm) by 1 inch (25.4 mm) x 3/8 inch (9.5 mm). Entire frame shall be riveted and clenched, providing a unitized frame with three 3 inch x 3 inch heavy galvanized hinges or a continuous piano style hinge.

1. Door shall be furnished as standard with a heavy duty service mortise type cylinder locks operated by a key from outside, and a recessed thumb-turn actuation from inside.
2. Additional options to be specified as required: Lever Handle, Push Bar, Paddle, Keypad, Padlock Hasp, Electric Strike or Card Reader.

G. Cage ceilings to be manufacturer's standard construction and configuration.

H. Furnished as standard in a maintenance free, galvanized finish. A wet spray enamel paint coating shall not be approved as equal.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Dependent upon height, brace panels and doors to structure to resist panel applied loads and door misalignment.

3.3 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION