



SECTION 10 22 13

Wov-N-Wire® MESH PARTITIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Wov-N-Wire® 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 the 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. Do not store outside or allow to get wet.

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 Wov-N-Wire® as manufactured by Folding Guard.
- B. Panels shall be woven of No. 10 gauge (0.128 inch) (3.3 mm) steel wire in a 1-1/2 inches (38 mm) diamond mesh openings with wires securely clenched and intermittently spot welded to the frame.
- C. Vertical frames shall be 5/8 inch (15.9 mm) x 1-1/4 inches (31.8 mm) x 5/8 inch (15.9 mm) steel 14 gauge c-channels and horizontal frames shall be 1/2 inch (12.7 mm) x 1 inch (25.4 mm) by 1/2 inch (12.7 mm) steel 14 gauge u-channel. Corner joint construction shall be a slot-tab joint design, with tab joint formed at 90 degrees and secured with one full width 5/8 inch (15.9 mm) weld at each corner junction. A center reinforcing bar 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) securely riveted through the wire mesh at 3 feet six inches (1.07m) from the floor. Frames shall be furnished to standard with a casted support shoe 3-5/8 inches (93 mm) x 1-7/8 inches (48 mm) for supporting the panel in the upright position and anchoring to the floor. For wire mesh configurations with doors, linear runs 10 feet (3 m) or greater, and panels greater than 10 feet (3 m) in height, line posts are to be specified (see Section D).
- D. Wov-N-Wire® mesh partitions shall be supported by line posts constructed of 1 inch (25.4 mm) by 3-1/2 inches (90 mm) by 1 inch (25.4 mm) steel u-channel, welded to a steel base plate 3/16 inch (4.8 mm) by 5 inches (127 mm) by 9 inches (228.6 mm), complete with four holes provided for anchoring. Line posts shall include a three slot system to allow the mesh panel attachment either on center or offset dependent upon optional door locations. Line posts without the offset feature shall not be approved as equal. Finish shall be a Machine Gray Powder Coat (except galvanized and aluminum components). A wet spray enamel paint coating shall not be approved as equal. Optional colors are available. Specify the quantity of posts as required.
 - 1. Posts shall be furnished at the one of the selected standard heights:
 - a) 7'-0" (2.1m) high system.
 - b) 8'-0" (2.4m) high system.
 - c) 10'-0" (3.1m) high system.
 - d) 12'-0" (3.7m) high system.

- e) Custom height (specify _____).
 2. Attachment of wire mesh partitions to line posts to be accomplished by four (4) 1/4 (6 mm) inch by 1-3/4 inch (44.5 mm) hex head bolts furnished with the panel as standard.
 3. Optional top capping channel is available for a clean finished look. Capping channel shall be furnished as a 1 inch (25.4 mm) by 1-1/2 inch (38.1 mm) by 1 inch (25.4 mm) galvanized steel. Specify as required.
- E. 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). A center reinforcing bar 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) securely riveted through the wire mesh at 3 feet six inches (1.07m) from the floor. 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 welded at each frame and stiffener junction, 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, Electric Strike, Card Reader or Magnetic Lock.
- F. 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 inch (31.8 mm) by 5/8 inch (15.9 mm) steel c-channel on the vertical members (full frame). A center reinforcing bar 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) securely riveted through the wire mesh at 3 feet six inches (1.07m) from the floor. 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 welded at each frame and stiffener junction, providing a unitized frame with three 3 inch x 3 inch heavy galvanized hinges.
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. Finish shall be Machine Gray Powder Coat, with the exception of galvanized and aluminum components. 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 the project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION