



PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. 130A Standard Duty Wire Mesh and 135A Heavy Duty Wire Mesh.
 - 1. Window Guards

1.2 DEFENITIONS

- A. Intermediate Crimp: Wire pass over one and under the next adjacent wire in both directions, with wires crimped before weaving and with extra crimps between intersections.

1.3 SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
 - 1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
- C. Shop Drawings:
 - 1. Include plans, elevations, sections, details of window guard, and hardware.
- D. Samples for initial selection: For units with factory-applied color finishes.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 1 year experience installing similar products.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver wire mesh items palleted and wrapped to provide protection during transit and project-site storage. Use vented plastic.
- B. Store wire mesh in a dry area out of weather and prohibit stacking other materials on top.

1.6 FIELD CONDITIONS

- A. Field Measurements: Verify actual dimensions of contiguous with wire mesh units by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acorn Wire & Iron Works LLC

2.2 MATERIALS

- A. Steel Wire: ASTM A 510.
- B. Steel Plates, Channels, Angles, and Bars: ASTM A 36.
- C. Galvanized Steel Wire: ASTM A 641.
- D. Panel-to-Panel Fasteners: Acorn's standard steel bolts and nuts.

2.3 130-A STANDARD-DUTY WIRE MESH PARTITIONS

- A. Mesh: 10 gauge steel 0.135-inch- (3.5-mm-) diameter, intermediate crimp steel wire woven into 1-1/2-inch (38-mm) diamond mesh.
- B. Vertical Frames: 1-1/4-by-5/8 (32-by-16-mm) cold-rolled, C shaped steel channels with holes for 1/4-inch-(6-mm-) diameter bolts not more than 12 inches (300 mm) o.c.
- C. Horizontal Frames: 1-by-1/2-by-1/8 inch (11Ga) (25-by-13-by-3.2-mm) cold-rolled steel channels.
- D. Perimeter Angle Frames: 1-1/2-by-1-1/2 by 1/8 (57-by-25-mm) angle.
- E. Locking options
 - 1. Padlock Lug: Hinged with hasp mortised into framing.
 - 2. Stationary: Fixed non operable.
- F. Mounting options:
 - 1. In jamb.
 - 2. Surface mounted.

- G. Finish: Powder –coated finish.
 - 1. Optional finishes:
 - A. Electro-galvanized.
 - B. Electro-galvanized and powder coat.
- H. Product options: 135-A HEAVY-DUTY WIRE MESH PARTITIONS
 - A. Mesh: 6 gauge steel 0.192-inch- (4.9-mm-) diameter, intermediate-crimp steel wire woven into 2-inch (50-mm) diamond mesh.
 - B. Vertical Frames: 1-1/2-by-3/4-by-1/8-inch (38-by-19-by-3.2-mm) cold-rolled steel channels; with holes for 7/16-inch- (11-mm-) diameter bolts not more than 18 inches (457 mm) o.c.
 - C. Horizontal Frames: One cold-rolled steel channel tenoned to side frames, 1-1/2 by 3/4 by 1/8 inch (38 by 22 by 3.2 mm), 12 gauge, with wires woven through center stiffening bar(s).
 - D. Perimeter Angle Frames: 1-3/4-by-1-3/4 by 1/8 (57-by-25-mm) angle

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

3.2 INTALLATION

- A. Install wire mesh partition in accordance with manufacturer’s shop drawings.

3.3 CLEANING

- A. Touchup Painting: Immediately after erection, clean bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting.

