

## Model 204 – Insulated Windlock Commercial Sheet Door

### Part 1 - GENERAL

#### 1.01 DESCRIPTION

- A. Type:** Insulated Windlock Commercial Sheet Doors to be manufactured by Asta America.
- B. Operation:** to be hand chain operated using reduction drive.
- C. Mounting:** to be interior face mounted on a prepared opening.

**1.02 RELATED WORK:** Opening preparation, access panels, finish or field painting are in the scope of the work of other sections or trades.

### Part 2 - PRODUCT

#### 2.01 CURTAIN

- A. Curtain:** 26 gauge galvanized grade 80 full hard steel roll formed in continuous corrugation. Galvanized according to A.S.T.M. A653-G60 and finished with baked epoxy primer and baked polyester topcoat.
- B. Side Stripping:** nylon to be attached to curtain edges.
- C. Bottom Bar:** curtain to be reinforced with a 2" x 1 3/4" x 12 gauge bottom bar fastened to aluminum retainer with bulb astragal.

#### 2.02 DRUM ASSEMBLY

- A. Drum:** to be formed with 26 gauge 12" diameter galvanized steel spiral torque tube and attached to 16 gauge galvanized steel drums to restrict deflection to .03" per foot (2.5 mm/m) of door width.
- B. Springs:** to be oil tempered, grease packed helical torsion type designed to cycle 12,500 times with an overload factor of 25%. Springs are to be mounted on a 1-5/16" hot rolled steel tubing minimum 11 gauge.

**2.03 SUPPORT BRACKETs:** to be 3/16" (4.76mm x 4.76mm) thick structural steel angles and a 1/4" (6.35mm) thick steel diagonal brace welded in a triangular form to support ends of drum assembly.

#### 2.04 OPERATION

- A. Chain Hoist:** to be cast iron pocket wheel drive with machine link hand chain.

**2.05 GUIDE ASSEMBLY:** to be roll formed 12 gauge galvanized steel channels (3 1/2" deep per side) with toggle lock 12 gauge windlock insert.

**2.06 WINDLOAD:** FL#16905 Designed to satisfy windload of +/-35.0 psf, Tested to +/-52.5 psf up to 14' wide x 18'high. Consult Asta Customer Service for available sizes or higher windloads.

- A. WINDLOCK:** 10 gauge galvanized windlock clips riveted to door curtain edge.

**2.07 INSULATION:** to be mylar and polyethylene insulation laminated to corrugated sheet.

- A. Side Draft Seal:** 2" Brush seal with a 1" aluminum retainer attached to door jamb. (field installed).
- B. Top Draft Stop:** E.P.D.M. seal attached to top of curtain to seal against header (field installed).

#### 2.08 LOCKING

- A. Hand Chain Lock:** bracket, to be mounted on guide angle or wall for chain operated doors.
- B. Curtain Lock:** Dual galvanized steel slide bolt locks attached to the bottom bar suitable for padlocks. (Padlocks by Others) to be hardened galvanized steel slide bolts attached to bottom angle suitable for padlocking. (padlock by others)

#### 2.09 MOUNTING

- A. Jamb Surfaces:** able to mount to poured CMU block, concrete, and steel jambs.

**2.10 FINISH:** galvanized and pre-painted with long-lasting silicone polyester paint guaranteed with a 25 year film integrity warranty to not crack, peel or blister. Additional guarantee up to 20 years against chalking and fading based on color chosen.

### Part 3 - EXECUTION

**3.01 INSTALLATION:** to be by an authorized representative according to Asta America standards and instructions.