

## Model 622—Insulated Rolling Steel Door – Windload Certified

### Part 1 - GENERAL

#### 1.01 DESCRIPTION

- A. Type:** Insulated Doors to be manufactured by Asta Door Corporation.
- B. Operation:** to be chain hoist operated using gear reduction.
- C. Mounting:** to be interior face mounted on a prepared opening.

#### 1.02 RELATED WORK

- A.** 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. Slats:** 22 gauge (front) and 24 gauge (back) galvanized steel cold roll formed in continuous lengths. Galvanized according to A.S.T.M. A653-G90\* and finished with baked epoxy primer and baked polyester top coat. Available in a flat slat profile only.
- B. Endlocks:** each end of alternate slats to be fitted with windlocks to provide a wearing surface in the guides and to maintain slat alignment. Fastened with 1/4" rivets.
- C. Windload:** door construction designed to meet or exceed a windload of +/-50.0 psf at 16'0" wide. Consult factory for available sizes or higher windload.
- D. Bottom Bar:** curtain to be reinforced with a bottom bar consisting of two 2" x 2" x 1/8" (50.8mm x 50.8mm x 3.18mm) structural steel angles with P.V.C. bulb astragal.
- E. Insulation:** to be 3/4" expanded polystyrene foam strips adhered to flat slat. (R = 5.0, U = .25)

#### 2.02 BARREL ASSEMBLY

- A. Barrel:** to be a steel pipe of diameter and wall thickness to restrict maximum 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 20,000 times with an overload factor of 25%. Springs are to be mounted on a cold rolled steel inner shaft.
- C. End Bearing:** to be self lubricating ball bearings or oil impregnated bronze bushings.

#### 2.03 BRACKET PLATES

- A. Bracket Plates:** to be 1/4" (6.35mm) minimum thickness steel plate and enclose ends of barrel assembly.
- B. Drive End Bracket Plate:** to be fitted with a self aligning sealed ball bearing.

#### 2.04 OPERATION

- A. Drive:** to consist of roller chains and sprockets.
- B. Hand Chain:** to be galvanized machine link. Pull not to exceed 35 lbs. (156 N).

#### 2.05 GUIDE ASSEMBLY

- A. Wall Angles:** to be 1/4" (6.35mm) minimum thickness structural steel angles.
- B. Guides:** to be structural steel angles 3/16" (4.76mm) minimum thickness with removable head stops. 1/2" steel square bar welded to outer angle for windlock engagement.
- C. Guide Depth:** to provide slat penetration adequate to satisfy specified windloading.
- D. Weather Seal:** non-coil side to be vinyl weather seal.

#### 2.06 HOODS

- A. Hoods:** to be 24 gauge galvanized steel with baked epoxy primer and baked polyester top coat and enclose coil. 8" P.V.C. baffle to be riveted to inside of hood.
- B. Reinforcing:** to be 1/4" (6.35mm) thick steel brackets for doors over 16'0" (4877mm) wide.

#### 2.07 LOCKING

- A. Hand Chain Lock:** lockable bracket, mounted on guide angle or wall, suitable for padlocking (padlock by others).

#### 2.08 FINISH

- A. Ungalvanized Surfaces:** to be shop coated with rust reducing black prime paint, except malleable endlocks.

### Part 3 - EXECUTION

#### 3.01 INSTALLATION

- A. Installation:** to be by Asta Door Corporation authorized representative according to Asta Door Corporation standards and instructions.