

## Model 624 – Insulated Rolling Steel Door Foamed in Place Urethane

### PART 1 – GENERAL

#### 1.01 DESCRIPTION

- A. Type:** Insulated Doors to be manufactured by Asta Door Corporation.
- B. Operation:** standard chain hoist operated using gear reduction, motor operation optional.
- 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:** 24 gauge (front) and 24 gauge (back) galvanized steel cold roll formed in continuous lengths. Galvanized according to A.S.T.M. A653- and finished with baked epoxy primer and baked polyester topcoat.
  - 1. Model 624 is available in sizes up to 24' (7.32m) wide x 16' (4.88m) high.
- B. Endlocks:** each end of alternate slats to be fitted with endlocks to provide a wearing surface in the guides and to maintain slat alignment. Fastened with 1/4" rivets.
- C. Windload (standard):** door construction designed to meet or exceed a windload of 20 PSF (0.96Kpa) or 90 M.P.H. (145 KPH). Consult factory for available sizes.
  - Optional Windload-
    - 1. Windload Certified
    - 2. Impact Rated
- D. Bottom Bar:** curtain to be reinforced with a bottom bar consisting of two steel angles bolted back-to-back with bottom astragal, painted black (powder coat optional).
- E. Insulation:** to be 3/4" foamed in place urethane to flat slat. (R = 7.2 U = .139)
- F. Vision Lites:** (Optional): 5" x 3/4"

#### 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 25,000 times. 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 MOUNTING 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 3/16" (4.76mm) minimum thickness structural steel angles.
- B. Guides:** to be structural steel angles 3/16" (4.76mm) minimum thickness with removable head stops.
- 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.

**Curtain finish options:**

1. White topcoat
2. Gray topcoat
3. Tan topcoat

## **PART 3 - EXECUTION**

### 3.01 INSTALLATION

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