

## 400 Series - Standard Rolling Steel Door

### Part 1 - GENERAL

#### 1.01 DESCRIPTION

**A. Type:** Standard Rolling Steel Doors to be manufactured by Asta Door Corporation.

**B. Operation:** standard chain hoist operation, roller chains and sprockets. Hand chain galvanized machine link to pull 35 lbs. or less. Electric motor operation or crank optional.

**C. Mounting:** to be interior face mounted on a prepared opening, between jamb under lintel, between jamb face of wall or exterior.

#### 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:** Galvanized steel cold roll formed in continuous lengths. Galvanized according to A.S.T.M. A653-G90 and finished with baked epoxy primer and/or baked polyester topcoat (finish colors listed below). Flat slat 2-5/8" x 5/8" or Curved slat 2-5/8" x 7/8"

1. Model 424- 24 gauge in flat or curved slat up to 20' (6.1m) wide x 16' (4.88) high

2. Model 422- 22 gauge in flat or curved slat up to 24' (7.32m) wide x 24' (7.32m) high

3. Model 420- 20 gauge in flat or curved slat up to 26' (7.92m) wide x 26' (7.92m) high or 40' (12.19m) wide x 14' (4.27m) high

4. Model 418- 18 gauge in flat or curved slat up to 30' (9.14m) wide x 30' (9.14m) high or 44' (13.41m) wide x 18' (5.49m) high

*Note: Larger sizes are available, contact customer service for details.*

**B. Endlocks:** each end of alternate slats to be fitted with malleable iron endlocks to maintain slat alignment. Windlocks to be used on larger size doors and all Windload certified doors.

**C. Windload (standard):** door construction designed to meet or exceed a windload of 20 PSF or 90 M.P.H. 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).

#### 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 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. Chain Hoist:** to consist of roller chains and sprockets.

**B. Hand Chain:** to be galvanized machine link. Pull not to exceed 35 lbs. (156 N).

**C. Electric Motor Operation:** to be front of hood mount or wall mounted.

**D. Crank Operation:** to be operated with a awning crank and crank handle

#### 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 headstops and 30" (762mm) service cutout on both sides.

**C. Guide Depth:** to provide slat penetration adequate to satisfy specified windloading.

**D. Weather Seal:** optional non-coil side to be vinyl weather seal (optional aluminum retainer with brush seal).

## **2.06 HOODS**

**A. Hoods:** to be 24-gauge galvanized steel with baked epoxy primer and/or baked polyester topcoat and enclose coil (optional header seal or hood baffle).

**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 for the malleable iron endlocks.

**B. Curtain:**

1. Satin White Topcoat
2. Gray Topcoat
3. Tan Topcoat
4. Galvanized in 22 gauge only
5. Powder Coat Optional Ral. # \_\_\_\_\_

## **Part 3 - EXECUTION**

### **3.01 INSTALLATION**

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