

## Series 300 – Windload Certified / Commercial Slat Door

### Part 1 – GENERAL

#### 1.01 DESCRIPTION

- A. Type:** Standard Commercial Flat Slat Doors to be manufactured by Asta Door Corporation.  
**B. Operation:** to be chain hoist operated using gear reduction, or optional electric operation.  
**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 baked polyester topcoat.  
1. Model 324 – 24 gauge in flat slat up to 16' (4.88m) wide x 16' (4.88m) high  
2. Model 322 – 22 gauge in flat slat up to 12' (3.66m) wide x 12' (3.66m) high  
**B. Wind Endlocks:** each end of alternate slats to be fitted with malleable iron wind locks to maintain slat alignment  
**C. Windload:** Design pressures based on the test of a 14' wide x 14' high Model 324 24 gauge +50/-46 psf and Model 322 22 gauge +54/-51.  
**D. Bottom Bar:** curtain to be reinforced with a bottom bar consisting of a 2" x 1 1/2" x 12-gauge angle fastened to aluminum retainer with bulb astragal.

#### 2.02 DRUM ASSEMBLY

- A. Drum:** 26-gauge 12" (304.8mm) diameter galvanized steel spiral torque tube attached to 16-gauge galvanized steel drums, with ball bearings, supported by 1-5/16" O.D. steel tubing.  
**B. Springs:** factory lubricated; oil tempered, helical torsion springs located inside the barrel made of wire conforming to ASTM A229. Springs are attached to the steel axle tube by means of a welded spring clip, the springs are designed to cycle 12,500 times, high cycle springs are not available.  
**C. End Bearings:** to be self-lubricating ball bearings.

#### 2.03 SUPPORT BRACKETS

- A. Support Brackets:** to be 3/16" (4.76mm) thick 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. Drive:** reduction gear chain hoist standard for all sizes.  
**B. Hand Chain:** to be galvanized machine link. Pull not to exceed 35 lbs.  
**C. Electric Operation:** Wall mounted jackshaft motor.

#### 2.05 GUIDE ASSEMBLY

- A. Guides:** to be structural steel angles 3/16" (4.76mm) minimum thickness with removable head stops and 30" (762mm) service cutout on both sides.  
**B. Guide Depth:** to provide slat penetration adequate to satisfy specified windloading.

#### 2.06 LOCKING

- A. Hand Chain Lock:** bracket, to be mounted on guide angle or wall.  
**B. Curtain Lock:** hardened galvanized steel slide bolts attached to bottom angle suitable for padlocking. (padlock by others)