

## Model 420 - Service Door / 20 Gauge

### Part 1 - GENERAL

#### 1.01 DESCRIPTION

**A. Type:** Standard Rolling Steel 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 is in the scope of the work of other sections or trades.

### Part 2 - PRODUCT

#### 2.01 CURTAIN

**A. Slats:** 20 gauge 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.

**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:** 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 or higher windloads)

**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.

#### 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 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.

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

#### 2.06 HOODS

**A. Hoods:** to be 24 gauge galvanized steel with baked epoxy primer and/or baked polyester top coat and enclose coil.

**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.