

Model 420 - Rolling Steel Door/20 Gauge - Windload Certified

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. Available in a flat or curved profile.

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 +/-47.7 psf at 16'0" wide for flat slat profile and +/-32.2 psf for curved slat profile. 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 1/4" (6.35mm) minimum thickness structural steel angles.

B. Guides: to be structural steel angles 3/16" (4.76mm) minimum thickness with removable headstops. 1/2" steel square bar welded to outer angle for Windlock engagement.

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.