

600 Series – Windload Certified / Insulated Rolling Steel Door Laid in Place Polystyrene (LIP) & Foamed in Place Urethane (FIP)

PART 1 – GENERAL

1.01 DESCRIPTION

A. Type: Windload certified 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, 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- and finished with baked epoxy primer and baked polyester topcoat.

1. Model 622 - 22 gauge (front) and 24 gauge (back) up to 24' (7.32m) wide x 16' (4.88m) high

2. Model 620 – 20 gauge (front) and 24 gauge (back) up to 26' (7.92m) wide x 26' (7.92m) high or 32' (9.75m) x 20' (6.1m)

3. Model 618 – 18 gauge (font) and 24 gauge (back) up to 26' (7.92m) wide x 26' (7.92m) high or 31' (9.45m) x 24' (7.32m)

Note 1: Optional 22-gauge back slat available only on front slats that are 22, 20 or 18 gauge doors.

Note 2: For larger sizes not listed please contact customer service.

B. Windlocks: 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: Design pressures based on the test of a 24' wide +28.8/-30.5 psf and 16' wide +55/-60 psf windload pressure.

1. Windload Certified Up To 32' wide x 30' high

2. Impact Rated Up To 24' wide x 30' high D. Bottom Bar: curtain to be reinforced with a bottom bar consisting of two 2" x 2" x 12 gauge minimum to 1/4" structural steel, P.V.C. bulb astragal.

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".

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:

1. to be 3/4" laid in place polystyrene (LIP) to flat slat. (R = 5 and U = .25)

2. to be 3/4" foamed in place urethane (FIP) to flat slat. (R = 7.2 and 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 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.

2.05 GUIDE ASSEMBLY

- A. Wall Angles:** to be 3/16" (4.76mm) minimum thickness structural steel angles.
- B. Guides:** wind-bar 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:** non-coil side to be clip on 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 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), slide bolt locks and cylinder locks optional.

2.08 FINISH

- A. Ungalvanized Surfaces:** to be shop coated with rust reducing black prime paint, except malleable windlocks.

Curtain finish options:

1. White topcoat
2. Gray topcoat
3. Tan topcoat
4. Galvanized (22 gauge only)

PART 3 - EXECUTION

3.01 INSTALLATION

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