

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

PART 1 – GENERAL

1.01 DESCRIPTION

A. Type: 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 624 - 24 gauge (front) and 24 gauge (back) up to 24' (7.32m) wide x 16' (4.88m) high

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

3. 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)

4. Model 618 – 18 gauge (front) 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

Note 3: Model 624 (24ga/24ga) is available in Foamed in Place (FIP) urethane only, laid in place not available.

B. Endlocks / 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 (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).

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. Optional 50,000 or 100,000 cycle springs. Cycle countered required for warranty.

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: 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).

2.08 FINISH

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

Curtain finish options:

1. Satin White topcoat
2. Gray topcoat
3. Tan topcoat
4. Galvanized

PART 3 - EXECUTION

3.01 INSTALLATION

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