

300 Series - Commercial Slat Door - Windload Certified

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Type:** Standard Commercial Slat Doors to be manufactured by Asta Door Corporation.
- B. Operation:** to be chain hoist operated using gear reduction, motor operation optional.
- C. Mounting:** to be interior face mounted on a prepared opening.

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 or curved slat up to 16' wide x 16' high
 2. Model 322 – 22 gauge in flat or curved slat up to 12' wide x 12' high
- B. Endlocks:** each end of alternate slats to be fitted with windlocks to provide a wearing surface in the guides and to maintain slat alignment and properly engage wind bar insert during high wind pressures. Fastened with 1/4" rivets.
- C. Windload:** Door construction designed to satisfy windload of +74.4/-69.8psf for sizes up to 12'0" wide by 14'0" high. Consult factory for available sizes or higher windload.
- D. Bottom Bar:** curtain to be reinforced with a bottom bar consisting of a 2" x 2" x 1/8" (50.8mm x 50.8mm x 4.76mm) structural steel angle with E.P.D.M. astragal.

2.02 DRUM ASSEMBLY

- A. Drum:** to be formed with 24 gauge galvanized steel sheet rolled around and attached to stamped 16 gauge galvanized steel drums to restrict deflection to .03" per foot (2.5mm/m) of door width.
- B. Springs:** to be oil tempered, grease packed helical torsion type designed to cycle 12,500 times with an overload factor of 25%. Springs are to be mounted on a 1" (25.4mm) black steel pipe of minimum Schedule 40.
- 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. Wall Angles:** to be 1/4" minimum thickness structural steel angles.
- B. Guides:** to be 3/16" minimum thickness structural steel angles with 1/2" steel square bar welded to outer angle for windlock engagement to have removable headstops.
- C. 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)

2.07 FINISH

A. Ungalvanized Surfaces: to be shop coated with rust reducing black prime paint, except for the malleable iron wind locks

B. Curtain:

1. Satin White Topcoat
2. Gray Topcoat
3. Tan Topcoat
4. Galvanized in 22 gauge only
5. Powder Coat Optional Ral. # _____

PART 3 - EXECUTION

3.01 INSTALLATION

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