



211 Model – Commercial Sheet Door

12/5/2003

Part 1 - GENERAL

1.01 DESCRIPTION

- A. **Type:** Commercial Sheet Doors to be manufactured by Porvene Doors, Inc.
- B. **Operation:** to be rope pull or hand chain operated depending on size.
- 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. **Sheet:** 26 gauge galvanized steel roll formed in continuous corrugation. Galvanized according to A.S.T.M. A653-G60^{*} and finished with baked epoxy primer and baked polyester topcoat.
- B. **Side Stripping:** P.V.C. and nylon "Nylofelt" to be attached to curtain edges.
- C. **Windload:** Door construction designed to satisfy windload of 10 PSF (0.48KPA) or 63 MPH (101 KPH). Up to 12'0" X 14'0" (3658mm x 4267mm).
- D. **Bottom Bar:** Curtain to be reinforced with a bottom bar consisting of a continuous 13 gauge galvanized roll-formed steel angle with E.P.D.M. blade astragal.

2.02 DRUM ASSEMBLY

- A. **Drum:** to be stamped from 18 gauge galvanized steel.
- B. **Torque Tube:** to be formed with 26 gauge galvanized steel sheet rolled around and attached to stamped galvanized steel drums to resist deflection to 0.03" per foot (2.5mm/m) of door width.
- C. **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 1.5/16" (33.34mm) black steel pipe of minimum Schedule 40.

2.03 SUPPORT BRACKETS

- A. **Support Brackets:** to be 3/16" (4.76mm) thick structural 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. **Rope Pull:** to be 5/16" (7.94mm) polyester rope attached to bottom angle up to 10' x 10' (3048mm x 3048mm) doors.
- B. **Chain Hoist:** to be cast iron pocket wheel drive with machine link hand chain for 10' x 10' (3048mm x 3048mm) and larger doors.

2.05 GUIDE ASSEMBLY

- A. **Guides:** to be roll-formed 16 gauge galvanized steel channels.
- B. **Guide Depth:** to provide sheet penetration adequate to satisfy specified wind loading.

2.06 LOCKING

- A. **Hand Chain Lock:** bracket, to be mounted on guide angle or wall for chain operated doors.
- B. **Curtain Lock:** to be 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.

Part 3 - EXECUTION

3.01 INSTALLATION

- A. **Installation:** to be by Porvene Doors, Inc. authorized representative according to Porvene Doors, Inc. standards and instructions.

*A.S.T.M. A653 is the new designation of ASTM A527