



## 232 Model – Insulated Sheet Door

1/8/2007

### Part 1 - GENERAL

#### 1.01 DESCRIPTION

- A. **Type:** Insulated Sheet Doors to be manufactured by Porvene Doors, Inc.
- B. **Operation:** Reduced gear chain operation for all doors.
- 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<sup>+</sup> and finished with baked epoxy primer and baked polyester topcoat.
- B. **Side Stripping:** wide tempered steel band and P.V.C. attached to curtain edges.
- C. **Windload:** door construction designed to satisfy windload of 15 PSF (0.72KPA) or 77.5 MPH (124.7 KPH). (Consult factory for available sizes.)
- D. **Bottom Bar:** curtain to be reinforced with a bottom bar consisting of a 2" X 2" X 3/16" (50.8mm x 50.8mm x 4.75mm) structural steel angle with E.P.D.M. astragal.
- E. **Insulation:** to be aluminum foil polyethylene bubble insulation with wear-resistant polyester treatment, laminated to corrugated sheet.

#### 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 for doors 20' wide and smaller, otherwise 24 gauge, rolled around and fastened 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) thickness steel diagonal brace welded in a triangular form to support ends of drum assembly.

#### 2.04 OPERATION

- A. **Chain Hoist:** to be cast iron pocket wheel gear-reduced drive with machine link hand chain.

#### 2.05 GUIDE ASSEMBLY

- A. **Guides:** to be roll-formed 12 gauge galvanized steel channels.
- B. **Guide Depth:** to provide sheet penetration adequate to satisfy specified windloading.

#### 2.06 WEATHER SEAL

- A. **Side Draft Stop:** to be closed cell ethafoam attached to edge of sheet.
- B. **Top Draft Stop:** to be E.P.D.M. seal attached to top of curtain to seal against header.

#### 2.07 EFFICIENCY

- A. **Rating:** overall efficiency rating of R=5.24 (U=0.191).

#### 2.08 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