

Model 234 – Industrial Insulated Windlock Sheet Door

Part 1 - GENERAL

1.01 DESCRIPTION

- A. Type:** Industrial Insulated Windlock Sheet Doors to be manufactured by Asta Door Corporation.
- B. Operation:** to be hand chain operated using reduction drive.
- 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. 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 top coat.
- B. Side Stripping:** tempered steel banding and p.v.c. rubber to be attached to curtain edges.
- C. Windload:** Door construction designed to satisfy windload of 37.5 PSF (123 MPH), Tested to 56.25 PSF (150 MPH). Consult factory for available sizes or higher windloads.
- 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 4.76mm) structural steel angle with E.P.D.M. astragal.
- E. Windlock:** to be 10 gauge galvanized Windlock 110° clips riveted to door curtain edge.
- F. Insulation:** to be mylar and polyethylene insulation laminated to corrugated sheet.

2.02 DRUM ASSEMBLY

- A. Drum:** to be formed with 26 gauge galvanized steel sheet rolled around and attached to stamped galvanized steel drums to restrict 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 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.

2.03 SUPPORT BRACKETS

- A. Support Brackets:** to be 3/16" (4.76mm x 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. Chain Hoist:** to be cast iron pocket wheel drive with machine link hand chain.

2.05 GUIDE ASSEMBLY

- A. Guides:** to be roll formed 12 gauge galvanized steel channels with welded 12 gauge Windlock 110° insert.
- B. Guide Depth:** 3-1/2" deep per side 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 (field installed).
- B. Top Draft Stop:** to be E.P.D.M. seal attached to top of curtain to seal against header (field installed).

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)

2.09 FINISH

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

2.10 EFFICIENCY

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

Part 3 - EXECUTION

3.01 INSTALLATION

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