

Model 204 – Insulated Windlock Commercial Sheet Door

Part 1 - GENERAL

1.01 DESCRIPTION

A. Type: Insulated Windlock Commercial Sheet Doors to be manufactured by Asta America.

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 grade 80 full hard 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: wear strip to be attached to curtain edges.

C. Windload: Door construction designed to satisfy windload of 35.0 PSF, Tested to 52.50 PSF at 16'0" wide. 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. Wind-Lock: to be 10 gauge galvanized 110° Wind-Lock 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 16 gauge 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 1-5/16" hot rolled steel tubing minimum 11 gauge.

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 10 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 Seal: brushseal with aluminum retainer (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 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)

2.08 FINISH

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

2.09 EFFICIENCY

A. Rating: overall efficiency rating of R=2.0.

Part 3 - EXECUTION

3.01 INSTALLATION

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