**SECTION 08 33 13**

**COILING COUNTER DOORS**

**PART 1 GENERAL**

1. SECTION INCLUDES
   1. Standard rolling counter doors; manual operated; factory pre-coated finish.
2. REFERENCES
   1. UL 325 – Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems
   2. ASTM A123/A123M – Standard Specification for Zinc (Hot Dip Galvanized) Coating on Iron and Steel Products
3. SYSTEM DESCRIPTION
   1. Hand chain lift unit with overhead counter balance device.
   2. Fire rated doors with fusible link activated with automatically governed closing speed.
4. SUBMITTALS
   1. Submit shop drawings and product data under provisions of Section 01 33 00.
   2. Provide pertinent dimensioning, general construction, component connections and details, anchorage methods, hardware location and installation details.
   3. Submit manufacturer's installation instructions under provisions of Section 01 33 00.
   4. Submit sample of door for specified finish under provisions of Section 01 33 00.
5. OPERATION AND MAINTENANCE DATA
   1. Submit manufacturer's operation and maintenance data under provisions of Section 01 77 00.

**PART 2 PRODUCTS**

1. MATERIALS
   1. Curtain:
      1. Slats: No. 1F interlocked flat-faced slats, 1½" high by ½" deep, 22-gauge AISI 300 series stainless steel with stainless steel angle bottom bar with lift handles and vinyl astragal.
      2. Fabricate interlocking sections with high strength molded nylon end-locks riveted to ends of alternate slats.
      3. Slat Finish: Stainless steel: No. 4 finish.
      4. Bottom Bar Finish: Stainless steel: No. 4 finish.
   2. Curtain Guides:
      1. Stainless steel: 12-gauge formed shapes for integral frame and 14 gauge sill.
      2. Finish: Stainless steel: No. 4 finish.
   3. Counterbalance Shaft Assembly:
      1. Barrel shall be steel pipe capable of supporting curtain load with maximum deflection of 0.03" per foot of width.
      2. Spring Balance: Oil-tempered, heat-treated steel helical torsion spring assembly designed for proper balance of door to ensure that maximum effort to operate will not exceed 25 lbs.
         1. Provide wheel for applying and adjusting spring torque.
   4. Brackets: Fabricate from reinforced steel plate with bearings at rotating support points to support counterbalance shaft assembly and form end closures.
      1. Finish: ASTM A123/A123M, Grade 85 zinc coating, hot dip galvanized after fabrication.
   5. Hood: 24 gauge stainless steel with reinforced top and bottom edges and minimum ¼" steel intermediate support brackets as required to prevent excessive sag.
      1. Finish: Stainless steel: No. 4 finish.
2. ACCESSORIES
   1. Locking:
      1. Manual Crank Hoist: Pad lockable slide bolt on coil side of bottom bar of each jamb extending into slots in guides.
3. OPERATION
   1. Provide crank hoist operator, crank gearbox steel crank drive shaft, and geared reduction unit.
   2. Fabricate gearbox to completely enclose operating mechanism and be oil-tight.

**PART 3 EXECUTION**

1. EXAMINATION
   1. Examine substrates upon which work will be installed and verify conditions are in accordance with approved shop drawings.
   2. Coordinate with the Contractor to correct unsatisfactory substrates.
   3. Commencement of work by installer is acceptance of substrate.
2. INSTALLER
   1. General: Install door and operating equipment with necessary hardware, anchors, inserts, hangers, and supports.
   2. Follow manufacturer’s installation instructions.
3. ADJUSTING
   1. Following completion of installation, including related work by others, lubricate, test, and adjust doors for ease of operation, free from warp, twist, or distortion.
4. CLEANING
   1. Clean surfaces soiled by work as recommended by the manufacturer.
   2. Remove surplus materials and debris from the site.
5. DEMONSTRATION
   1. Demonstrate proper operation and maintenance procedures to the Owner.

END OF SECTION