SECTION 08330

ROLLING COUNTER DOORS WITH INTEGRAL FRAME

GENERAL NOTES TO SPECIFIER:

THIS SPECIFICATION SECTION HAS BEEN PREPARED TO ASSIST DESIGN PROFESSIONALS IN THE PREPARATION OF PROJECT OR OFFICE MASTER SPECIFICATIONS. IT FOLLOWS GUIDELINES ESTABLISHED BY THE CONSTRUCTION SPECIFICATIONS INSTITUTE, AND THEREFORE MAY BE USED WITH MOST MASTER SPECIFICATION SYSTEMS WITH MINOR EDITING.

EDIT CAREFULLY TO SUIT PROJECT REQUIREMENTS. MODIFY AS NECESSARY AND DELETE ITEMS THAT ARE NOT APPLICABLE. VERIFY THAT REFERENCED SECTION NUMBERS AND TITLES ARE CORRECT. (NUMBERS AND TITLES REFERENCED ARE BASED ON MASTERFORMAT, 1995 EDITION).

THIS SECTION ASSUMES THE PROJECT MANUAL WILL CONTAIN COMPLETE DIVISION 1 DOCUMENTS INCLUDING SECTIONS 01330 SUBMITTAL PROCEDURES, 01620 PRODUCT OPTIONS, 01630 PRODUCT SUBSTITUTION PROCEDURES, 01660 PRODUCT STORAGE AND HANDLING REQUIREMENTS, 01770 CLOSEOUT PROCEDURES, AND 01780 CLOSEOUT SUBMITTALS. IF THE PROJECT MANUAL DOES NOT CONTAIN THESE SECTIONS, ADDITIONAL INFORMATION SHOULD BE INCLUDED UNDER THE APPROPRIATE ARTICLES.

THIS IS AN OPEN PROPRIETARY SPECIFICATION ALLOWING USERS THE OPTION OF APPROVING OTHER MANUFACTURERS WHICH COMPLY WITH THE CRITERIA SPECIFIED HEREIN.

NOTES TO THE SPECIFIER ARE CONTAINED IN BOXES AND SHOULD BE DELETED FROM FINAL COPY.

OPTIONAL ITEMS REQUIRING SELECTION BY THE SPECIFIER ARE ENCLOSED WITHIN BRACKETS, E.G.: [35] [40] [45]. IN CASES WHERE ONE OF THE OPTIONAL ITEMS IS A STANDARD FEATURE OF THE DOOR MODEL, IT IS LISTED IN THE FIRST POSITION. MAKE APPROPRIATE SELECTION AND DELETE OTHERS.

ITEMS REQUIRING ADDITIONAL INFORMATION ARE UNDERLINED, E.G.: _____.

OPTIONAL PARAGRAPHS ARE SEPARATED BY A REDLINED "OR," E.G.:

OR

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Manual rolling counter doors with integral frame [and countertop], built-in type.

OR

   1. Manual rolling counter doors with integral frame [and countertop], slip-in type.

B. Related Sections:
   1. 05500 Metal Fabrications. Door opening jamb and head members.
   2. 06100 Rough Carpentry. Door opening jamb and head members.
   3. 08310 Access Doors and Panels. Access doors.
   4. 08700 Hardware. Padlocks. Masterkeyed cylinder.
   5. 09910 Paints. Field painting.

INCLUDE APPROPRIATE LANGUAGE BELOW, INCLUDING A REFERENCE TO SECTION 01230 ALTERNATES, IF ROLLING COUNTER DOORS WITH INTEGRAL FRAME ARE INCLUDED IN ANY ALTERNATES, ADD SECTION 01230 TO 1.1 B. DELETE IF NO ALTERNATES.

C. Alternates:

1.2 SUBMITTALS

A. Reference Section 01330 Submittal Procedures; submit the following items:
   1. Product Data.
   2. Shop Drawings: Include special conditions not detailed in Product Data. Show interface with adjacent work.
   3. Quality Assurance/Control Submittals:
      a. Provide proof of manufacturer ISO 9001:2000 registration.
      b. Provide proof of manufacturer and installer qualifications - see 1.3 below.
      c. Provide manufacturer's installation instructions.
   4. Closeout Submittals:
      a. Operation and Maintenance Manual.
      b. Certificate stating that installed materials comply with this specification.

1.3 QUALITY ASSURANCE

A. Qualifications:
   1. Manufacturer Qualifications: ISO 9001:2000 registered and a minimum of five years experience in producing counter doors with integral frame assembly of the type specified.
   2. Installer Qualifications: Manufacturer's approval.

1.4 DELIVERY STORAGE AND HANDLING

A. Reference Section 01660 Product Storage and Handling Requirements.

B. Follow manufacturer's instructions.

1.5 WARRANTY

A. Standard Warranty: Two years from date of shipment against defects in material and workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Manufacturer: Cornell Iron Works, Inc., Crestwood Industrial Park, Mountaintop, PA 18707. Telephone: (800) 233-8366, Fax: (800) 526-0841. Underwriters Laboratories, Inc. (UL), ISO 9001:2000 Registered.

INSERT NAME, ADDRESS, AND PHONE NUMBERS OF LOCAL DISTRIBUTOR BELOW.

   1. Distributor:

B. Model: ESC20

C. Substitutions: Reference Section 01630 Product Substitution Procedures.

2.2 MATERIALS

A. Curtain:
   1. Slats: No. 1F, interlocked flat-faced slats, 1-1/2 inches (38 mm) high by 1/2 inch (13 mm) deep, [22 gauge ASTM A 653, Commercial Quality, galvanized steel] [0.040 inch (1.016 mm) aluminum] with extruded tubular aluminum bottom bar with continuous lift handle and vinyl astragal.

OR

   1. Slats: No. 1F, interlocked flat-faced slats, 1-1/2 inches (38 mm) high by 1/2 inch (13 mm) deep, 22 gauge AISI type 304 series stainless steel with stainless steel angle bottom bar with lift handles and vinyl astragal.

OR

   1. Slats: No. 1P ScreenGard interlocked flat-faced, perforated slats, 1-1/2 inches (38 mm) high by 1/2 inch (13 mm) deep, 22 gauge ASTM A 653, Commercial Quality, galvanized steel perforated with 0.062 inch (1.6 mm) diameter openings at 0.094 inch (2.4 mm) staggered centers, approximately 22 percent free area with extruded aluminum tubular bottom bar, continuous lift handle and vinyl astragal.
   2. Fabricate interlocking slat sections with high strength molded nylon endlocks riveted to ends of alternate slats.
   3. Slat Finish:
      a. GalvaNex™ Coating System to include an ASTM A 653 galvanized base coating treated with dual process rinsing agents in preparation of a chemical bonding, light gray baked-on polyester base coat and a light gray baked-on polyester finish coat. The scientific organic material composition and chemical bonding process of GalvaNex™ produces a superior finish against corrosion and abrasion. GalvaNex™ components include a limited two year finish warranty.

OR

      a. GalvaNex™ Coating System and phosphate treatment followed by baked-on polyester powder coat, [color as selected by Architect from manufacturer's standard color range, minimum 32 colors] [custom color as selected by Architect]; minimum 2.5 mils (0.065 mm) cured film thickness; ASTM D-3363 pencil hardness: H or better.

OR

      a. Aluminum: [Clear anodized] [Medium bronze anodized] [Dark bronze anodized] [Black anodized].

OR

      a. Stainless Steel: No. 4 finish.
   4. Bottom Bar Finish:
      a. Aluminum Bar/Steel Slat with Baked Enamel Coating: Clear anodized.

OR

      a. Aluminum Bar/Steel Slat with Powder Coating: Match slat powder coating.

OR

      a. Aluminum Bar/Aluminum Slat: Match slat finish.

OR

      a. Stainless Steel: No. 4 finish.

UNITS ARE DESIGNED TO FIT MINIMUM 4” (102 mm) THICK WALLS TO MAXIMUM 13” (330 mm) WALL THICKNESS.

B. Head and Jamb Frame: Integral welded with guide groove incorporated into jamb design. Build to fit _____" (_____ mm) wall thickness.
   1. Steel: 16 gauge formed shapes

OR

   1. Stainless Steel: 16 gauge AISI 300 series formed shapes.
   2. Finish:
      a. Steel: Light gray shop prime coat; minimum 0.6 mils (0.015 mm) cured film thickness.

OR

      a. Stainless steel: No. 4 finish.

DELETE BELOW IF INTEGRAL STAINLESS STEEL COUNTERTOP IS NOT TO BE PROVIDED WITH ROLLING COUNTER DOOR WITH INTEGRAL FRAME.

C. Countertop: Integral 14 gauge AISI 300 series stainless steel formed shape; No. 4 finish.

D. Counterbalance Shaft Assembly:
   1. Barrel: Steel pipe capable of supporting curtain load with maximum deflection of 0.03 inches per foot (2.5 mm per meter) 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 (110 N). Provide wheel for applying and adjusting spring torque.

E. Brackets: Fabricate from reinforced [steel] [AISI 300 series stainless steel] plate with bearings at rotating support points to support counterbalance shaft assembly and form end closures for hood.
   1. Finish:
      a. Steel: Light gray shop prime coat; minimum 0.6 mils (0.015 mm) cured film thickness.

OR

      a. Stainless Steel: No. 4 finish.

F. Hood [and Fascia]: [16 gauge steel] [16 gauge stainless steel] with reinforced top and bottom edges.
   1. Finish:
      a. Steel: Light gray shop prime coat; minimum 0.6 mils (0.015 mm) cured film thickness.

OR

      a. Stainless Steel: No. 4 finish.

2.3 ACCESSORIES

A. Locking:
   1. Lockable slide bolt on coil side of bottom bar at each jamb extending into slots in guides.

OR

   1. Masterkeyable cylinder operable from [coil] [fascia] [both] side[s] of bottom bar.

B. Graphics Door Image: [Flat face surface of door curtain slats] [hood] [fascia] to include a factory applied [4] [2] -color process, 2 mil thick vinyl graphic image, 3M® or equal.

Graphic image to be selected and electronically supplied by customer. Door opening size to be _____ feet wide x _____ feet high. Graphic image size to be _____ feet wide x _____ feet high.

PLASTIC LAMINATE COUNTERTOP IS AVAILABLE INLIEU OF INTEGRAL STAINLESS STEEL COUNTERTOP. 12” (305 mm) MINIMUM SILL DEPTH; 36” (914 mm) MAXIMUM SILL DEPTH. INCLUDE IF DESIRED AND DELETE 2.2 C.

C. Countertop: Plastic laminate covered, 1-1/4” (32 mm) thick, of size and configuration for opening size and wall construction. Color as selected by Architect from standard range of Wilson Art, Nevamar, Formica or Pionite plastic laminates.

2.4 FABRICATION

A. Factory weld head, [and] jambs [and countertop] into single unit, fully assembled, ready for installation.

2.5 OPERATION

A. Manual Push-Up: Provide lift handles on bottom bar and pole with hook.

OR

A. Manual Crank Hoist: Provide crank hoist operator including crank gear box, steel crank drive shaft and geared reduction unit. Fabricate gear box to completely enclose operating mechanism and be oil-tight.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates upon which work will be installed and verify conditions are in accordance with approved shop drawings.

B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.

C. Commencement of work by installer is acceptance of substrate.

3.2 INSTALLATION

A. General: Install door unit and operating equipment with necessary hardware, anchors, inserts, hangers and supports.

B. Follow manufacturer's installation instructions.

3.3 ADJUSTING

A. Following completion of installation, including related work by others, lubricate, test, and adjust doors for ease of operation, free from warp, twist, or distortion.

3.4 CLEANING

A. Clean surfaces soiled by work as recommended by manufacturer.

B. Remove surplus materials and debris from the site.

3.5 DEMONSTRATION

A. Demonstrate proper operation to Owner's Representative.

B. Instruct Owner's Representative in maintenance procedures.

END OF SECTION