

08 35 13 Specialty Manual Folding Door

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Basis of Design for doors is the ModCFT60 by BATOR Industrial Doors: 1451 South Elm-Eugene Street; Greensboro, NC 27406 (336.907.2286) www.batorusa.com.

1.2 SUMMARY

- A. This Section includes folding metal doors with surface mounted tube frames.
- B. Operation of specialty folding metal doors will be of manual nature.

1.3 SUBMITTALS

- A. General: Submit each item in this Article per the Conditions of the Contract and Division 1 Specification Sections.
- B. Product Data for each type of product specified consisting of manufacturer's technical Product Data and installation instructions for each type of door required, including data substantiating that products comply with requirements.
- C. Submittal drawings showing fabrication and installation of specialty folding metal doors including plans, elevations, sections, details of components, hardware, operating mechanism(s), and attachments to the other units of Work. Include wiring diagrams for coordination with electrical trade.
- D. Reference list including (5) successful installations of this type of door within the past two (2) years.

1.4 QUALITY ASSURANCE

- A. Doors shall be designed to withstand external or internal horizontal wind loads of 20 lbs minimum psf. The maximum allowable deflection shall not exceed 1/120 of the span. Fiber stresses in main members shall be limited to 27,000 lbs psi. Steel frames shall be designed in accordance with the AISC "Steel Construction Manual".

- B. Door manufacturer shall have at least 10 years experience in manufacturing door type specified for applications of similar type.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store delivered materials and equipment in dry locations with adequate ventilation, free from dust and water; in such way as to permit access for inspection and handling.
- B. Handle materials carefully to prevent damage.

1.6 WARRANTY

- A. The door manufacturer shall provide a written standard limited warranty for material and workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Specialty folding metal doors manufactured by BATOR GROUP, Int'l and / or BATOR North America, LLC located at 1451 South Elm Eugene Street; Greensboro, NC 27406 (336.907.2286) or equal products by other manufacturers approved in advance. (Series: ModCFT60)

2.2 MATERIALS

- A. Steel Tube: ASTM A513 and ASTM A500/A500M
- B. Steel Sheets: Steel sheets of commercial quality, complying with ASTM A1011/A1011M hot-rolled steel sheet.
- C. Hardware: Manufacturer's standard components.
- D. Fasteners: Zinc-coated steel.

2.3 SPECIALTY FOLDING DOORS

- A. Construction: Door framing shall be minimum 14-gauge structural steel tube with 14-gauge steel sheet on the exterior and interior faces. Sheeting shall be formed on the vertical edges with no visible welds on the interior or exterior panel faces. Door panels and optional glazing shall be sealed with wet silicone on exterior and interior side. All frames and framing members shall be true to dimension and square in all directions, and no door shall be bowed, warped, or out of line, in the vertical or horizontal plane of the door opening by more than 1/8 inch in 20 feet. Exposed welds and welds which interfere with the installation of various parts shall be ground smooth and flush. If installation is within 50 miles of coast, tube frame members shall be hot-dipped galvanized.
- B. Surface Mounted Tube Frame: Supply pre-hung tube frame system constructed of minimum TS6x4x0.25, designed to anchor to masonry wall construction or weld to steel structure. All hinges, track supports and operator supports shall be factory attached.

- C. Factory finish: Door Panels and Tube Frames shall be finished with manufacturer's standard factory applied powder coating system. Customer to select from Manufacturer's standard color chart or furnish sample to match.
 - a. Operator and operating hardware shall be powder-coated manufacturer's standard blue.
- D. Hardware: Hardware shall include all tracks and guiderails, trolleys, not less than two pairs of jamb and fold welded hinges per opening, and all bolts, nuts, fasteners, etc. necessary for complete installation and operation.
- E. Hinges: All hinges shall be welded on frame. Hinges are equipped with thrust bearings and grease nipples. All hinge pins shall be a minimum of 1" in diameter and made of stainless steel or hardened steel.
- F. Louver System: Louver system shall be by or similar to the Fortina-Stringer system manufactured by B+N Industries, Inc. Louver system shall be affixed framing system to create open air exterior grade closure.

2.4 OPERATOR

- A. Specialty folding door shall be manually operated requiring no motorization components.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install specialty folding metal doors in strict accordance with the approved drawings by qualified door erection crews. All door openings shall be completely prepared by the general contractor prior to the installation of the doors. Permanent or temporary electric wiring shall be brought to the door opening before installation is started and shall be completed so as not to delay the inspection test.
- B. Doors shall be set plumb, level, and square, and with all parts properly fastened and mounted. All moving parts shall be tested and adjusted and left in good operating condition.

3.2 ADJUSTING AND CLEANING

- A. Inspection of the doors and a complete operating test will be made by the installer in the presence of the general contractor or architect as soon as the erection is complete. Any defects noted shall be corrected. After door approval in the above test, the general contractor must assume the responsibility for any damage or rough handling of the doors during construction until the building is turned over to the owner and final inspection is made.
- B. Clean surfaces and repaint abraded or damaged finished surfaces to match factory-applied finish.

END OF SECTION