A RECOMMENDED SPECIFICATION

Section 08510 – Heavy Intermediate Steel Doors

PART 1 – GENERAL

1.01 DESCRIPTION

A. The work under this section shall consist of furnishing all labor and materials for the fabrication of the Heavy Intermediate Steel Doors as shown in the contract drawings and as specified hereinafter, including all operating hardware, mullions, kick plates, door related material, factory applied finish and the installation of the doors and door hardware.

B. RELATED WORK SPECIFIED ELSEWHERE
1. Glass & Glazing – Section 08800
2. Perimeter Caulking – Section 07920
3. Embedded Items – Section (enter)
4. Final Cleaning – Section (enter)

1.02 QUALITY ASSURANCE

A. Doors shall be a product of a recognized manufacturer of heavy intermediate steel doors with not less than 5 years experience in the fabrication of hot rolled steel doors.

B. Standard manufacturing tolerance shall be ± 1/16".

C. The door frame opening shall have a maximum height of 8'0" with a maximum area of 24 square feet.

1.03 SUBMITTALS

SHOP DRAWINGS: Submit shop drawings with elevations of all doors, dimensions, construction information, installation and anchorage details, hardware and all other pertinent information required for a complete installation.

1.04 PRODUCT DELIVERY, STORAGE & HANDLING

A. All material shall be unloaded and stored off the ground in a protected area designated by the General Contractor, which is secure and convenient to the area of installation.

1.05 WARRANTY

A. Warranty for a period of 1 year from date of final acceptance or substantial completion, whichever may be earlier, all doors and related materials furnished to be free from defects in material and workmanship. Under this Warranty, upon receipt of written request, promptly repair or replace at manufacturer's option, any of the materials found to be defective under conditions of normal use during this period, with the explicit understanding and express agreement that this Warranty shall not form the subject of a claim for labor or other expenditures incurred by the Purchaser in consequence of defect.

PART 2 – PRODUCT

2.01 STEEL DOORS

A. The details used in the drawings and specified herein are the products of Coast To Coast Manufacturing, and have been used to establish construction details and a standard of quality. Manufacturers of products believed to be equal in construction and design who desire to bid shall submit full size samples, catalogs and drawings including details of construction to the Architect at least ten days prior to bid date. Approval will be by addendum ONLY.

2.02 MATERIALS AND FABRICATION

A. All members shall be hot rolled new billet steel. Frames and door leaf sections shall have weathering baffles rolled integrally in the bar profiles to provide parallel double contact surfaces around the perimeter of each door leaf when closed.

B. FABRICATION: Corners of the frames and door leaves shall be coped or mitered and electrically welded; exposed welds shall be dressed smooth. Muntin bars shall be attached to the frame or door leaf members by means of mortise and tenon joints, with the intersections interlocked and welded with flush interior surfaces.

C. HARDWARE: Exposed operating hardware shall be solid bronze in a US25D (White Bronze) finish. (For other available finishes, please consult the factory.)

1. Three 4 ½" x 4 ½" steel ball bearing butt hinges per door leaf.
2. Four (or more) butt hinges for door leaves over 7'-0" height.
3. Schlage L Series Heavy Duty Mortise Lockset and trim. (Advise function and trim requirements)

NOTE: The prime contractor shall furnish the Key Cylinders.

NOTE: Other door hardware may or may not work with these doors. Consult factory before specifying hardware not listed above.

D. WEATHERSTRIPPING: Door leaves shall be continuously double weather-stripped around the entire perimeter of the door leaves. Joints of intersections of the weatherstripping shall butt tightly. Weatherstripping shall be closed cell neoprene.

E. KICK PLATES and LOCK BOX ENCLOSURE: Fabricate kick plates and lock box enclosure from 12 gauge galvanized steel to the dimensions and profiles indicated on the drawings.

F. PLATES, MULLIONS AND IMPOSTS: Fabricate to the dimensions, profiles and material thickness indicated on the drawings.

G. GLAZING: Doors shall be designed for glazing from the inside or outside (select one) with either glazing compound or bead glazing as follows:
1. With continuous aluminum snap on glazing beads.
2. With continuous aluminum screw on glazing beads.
3. With continuous steel screw on glazing beads.
4. With spring wire glazing clips and glazing compound. (Clips and glazing compound by others.)

NOTE: Glass, panels and glazing material by others.

H. FACTORY FINISHING:
1. After fabrication, all doors and mullions shall be sand blasted for uniformity and then, if specified, receive an electro-galvanized coating. (Hot dip galvanizing is optional)
2. Following galvanizing, all doors, etc. shall be phosphate treated in a multiple stage process, as a preparation for receiving paint.
3. Following pretreatment, all doors, etc. shall be prime painted.
4. If specified, all doors, etc. shall then be given a standard color coat of acrylic polyurethane paint. (Please furnish color selection)
(Other finishes and non-standard colors are available – please call)

I. SEALANTS: All exterior metal to metal contacts and/or joints between members of doors, frames, mullions and trim shall be set in a mastic sealant of the type recommended by the door manufacturer.

PART 3 – EXECUTION

3.01 ERECTION

A. All doors shall be installed into openings prepared by others in accordance with the final approved shop drawings. Prior to installation, all openings shall be inspected by the Erector to verify that openings are square and have been prepared to sizes and details in the approved drawings. Doors shall not be installed into any opening until the conditions are correct.

B. Set all doors plumb, level, true and properly braced to prevent distortion and/or misalignment. Doors not properly set shall be removed and reinstalled correctly by the Erector.

C. Attach all related material. Remove all excess sealants.

D. After installation and prior to glazing, the Erector shall adjust all door leaves to ensure proper weathering and check all operating hardware to ensure proper operation.

E. Following erection of the doors and related material, the Erector shall clean all abraded areas or damaged surfaces and apply air dry touch-up supplied by the door manufacturer for field application.

3.02 PROTECTION AND FINAL CLEANING

A. The General Contractor shall be responsible for protecting the doors and related material during storage on the job and during and after installation.

B. The General Contractor shall be responsible for the final cleaning of the doors and related material.