

**SECTION 08 11 73
SLIDING METAL FIRE DOORS**

SPEC WRITER NOTE: Delete text between // // not applicable to project. Edit remaining text to suit project.

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

- 1. Sliding metal fire doors protecting openings in fire walls for large openings.

1.2 RELATED WORK

SPEC WRITER NOTE: Update and retain references only when specified elsewhere in this section.

A. Section 09 06 00, SCHEDULE FOR FINISHES: Finish Color.

1.3 APPLICABLE PUBLICATIONS

A. Comply with references to extent specified in this section.

B. ASTM International (ASTM):

A653/A653M-20.....Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

C. National Fire Protection Association (NFPA):

80-16..... Standard for Fire Doors and Other Opening Protectives.
252-15.....Standard Methods of Fire Tests of Door Assemblies.

D. Underwriters' Laboratories (UL):

UL 10B-08.....Standard for Fire Tests of Door Assemblies.

1.4 SUBMITTALS

A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.

B. Submittal Drawings:

- 1. Show size, configuration, and fabrication and installation details.
- 2. Indicate clearance requirements for operation.
- 3. Describe fire release system, including testing and resetting instructions.

C. Manufacturer's Literature and Data:

- 1. Sliding metal fire doors.

D. Sustainable Construction Submittals:

SPEC WRITER NOTE: Retain sustainable design submittals appropriate to product.

1. Recycled Content: Identify post-consumer and pre-consumer recycled content percentage by weight.

1.5 WARRANTY

SPEC WRITER NOTE: Always retain construction warranty. FAR includes Contractor's one year labor and material warranty.

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."

PART 2 - PRODUCTS

2.1 SYSTEM PERFORMANCE

- A. Fire Resistance: ASTM E119; 180 minute rating, minimum.

2.2 PRODUCTS - GENERAL

- A. Basis of Design: Section 09 06 00, SCHEDULE FOR FINISHES.
- B. Provide each product from one manufacturer and from one production run.
- C. Sustainable Construction Requirements:

SPEC WRITER NOTE:

1. Specify products containing greatest recycled content practicable to maximize material recovery. See EPA Comprehensive Procurement Guidelines (CPG) for guidance about individual products and available recycled content. Section 01 81 13 sets overall project recycled content requirements.
2. Steel recycled content depends upon furnace type. AISC reports industry wide 32 percent for basic oxygen furnace and 93 percent for electric arc furnace.

1. Steel Recycled Content: 30 percent total recycled content, minimum.

2.3 SLIDING FIRE DOORS

- A. Sliding Fire Door: Metal fire doors, level track, gravity closing, complete door assembly, including required hardware and related components and accessories.
- B. Door Construction: Cores: Manufacturer's standard mineral type, comply with fire-protection rating.

- C. Door Facing: Galvanized, steel sheets, ASTM A653/A653M, // G90 (Z275) // G60 (Z180) // zinc coating, 1.0 mm (0.40 inch) minimum thickness.
- D. Hardware: Provide door hangers, track, guides and keepers; chaffing strips, fusible link at each opening, cord and weights and pull handles.

2.4 FINISHES

- A. // Factory Prime // Factory Finish //.

2.5 ACCESSORIES

- A. Fastenings and Accessories: As required for installation.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Examine and verify substrate suitability for product installation.
- B. Protect existing construction and completed work from damage.
 - 1. Verify blocking is installed at framed partitions to support sliding fire door.

3.2 INSTALLATION - GENERAL

- A. Install products according to manufacturer's instructions // and approved submittal drawings //.
 - 1. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.

3.3 INSTALLATION - SLIDING FIRE DOORS

- A. Install sliding fire doors according to NFPA 80.
- B. Hang doors plumb, level, free of rack and twist, and parallel to plane of fire wall.
- C. Adjust door for proper operation.
- D. Touch up damaged factory finishes.

3.4 DEMONSTRATION AND TRAINING

- A. Instruct VA personnel in proper sliding fire door operation and maintenance.
 - 1. Demonstrate resetting door and fusible link replacement.

3.5 PROTECTION

- A. Protect sliding fire door from construction operations.
- B. Remove protective materials immediately before acceptance.
- C. Repair damage.

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