

**SECTION 08 31 00**  
**ACCESS DOORS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. All requirements for access doors and frames located in walls and in ceilings, complete with accessories, as indicated on the Drawings and as specified herein.

**1.02 REFERENCE STANDARDS**

- A. References and industry standards listed in this section are applicable to the Work. Unless more restrictive criteria or differing requirements are explicitly stated in the Specifications, or mandated by governing codes or regulations, the recommendations, suggestions, and requirements described in the referenced standards shall be deemed mandatory and applicable to the Work.
- B. New York City Building Code
- C. UL (FRD) - Fire Resistance Directory; current edition.

**1.03 SUBMITTALS**

- A. Product Data
  - 1. For each type of door and frame indicated. Include catalogue cuts, construction details relative to materials, individual components and profiles, finishes, and fire ratings (if required) for access doors and frames.
- B. Shop Drawings
  - 1. Schedule: Provide complete door and frame schedule, including types, general locations, sizes, construction details, latching or locking provisions, and other data pertinent to installation. Indicate locations of fire rated doors on schedule.
- C. Certification and listing by an Approved Agency in accordance with NYC Dept. of Buildings rules, indicating that the materials and assemblies as regulated by the NYC Building Code is acceptable for the intended use. When test methods are stipulated in the NYC Building Code, the tests utilized shall be stated in the Certification. Prior MEA and BSA approvals are acceptable for materials conforming to current Code requirements.
  - 1. Fire rated access doors are regulated assemblies.
- D. Keys
  - 1. Furnish 6 keys for all locks

**1.04 QUALITY ASSURANCE**

- A. Fire rated Doors
  - 1. Fire Rated Access Doors for Walls: Complete assemblies meeting NYC Building Code requirements for 1½ hour rating for a 2-hour wall. Each assembly shall be labeled by an agency approved pursuant to rules of the NYC Dept. of Buildings. The label shall meet Building Code requirements and shall be permanently affixed at the factory.
  - 2. Fire Rated Access Doors for Ceilings: Complete assemblies complying with NYC Building Code requirements for one-hour combustible and one-hour non-combustible floor/ceiling systems. Each assembly shall be labeled by an agency approved pursuant to rules of the NYC Dept. of Buildings. The label shall meet Building Code requirements and shall be permanently affixed at the factory.

**1.05 COORDINATION**

- A. Verification: Determine specific locations and sizes for access doors needed to gain access to concealed equipment, and indicate on schedule specified in "Submittals" Article.

**1.06 DELIVERY, STORAGE AND HANDLING**

- A. Deliver, store, and handle access doors and frames as recommended by the Manufacturer, to protect from damage.

## **PART 2 PRODUCTS**

### **2.01 ACCEPTABLE MANUFACTURERS**

- A. Karp Associates, Inc., Maspeth, NY 11378
- B. Milcor, Inc., Lima, OH 45804
- C. Nystrom Building Products, Minneapolis, MN 55413

### **2.02 NON-FIRE RATED ACCESS DOORS**

- A. Frames
  - 1. Minimum 16 gage steel.
    - a. Flange: Integral exposed flange not less than 3/4" wide around the perimeter.
    - b. Plaster Applications: Expanded metal lath and exposed casting bead welded to perimeter of frame, in place of integral exposed flange.
    - c. Acoustical Tile Applications: Frames without exposed flange.
      - 1) Finish: Factory-applied rust inhibitive baked enamel primer over phosphate treated steel.
      - 2) Anchorage: Predrilled holes in frame for anchoring with fasteners.
- B. Flush Type Door Panel
  - 1. Minimum 14 gage steel.
    - a. Hinges: Concealed spring type set to open to approximately 175o; sufficient number to support the door size, or continuous type hinge.
    - b. Finish: Factory-applied rust inhibitive baked enamel primer over phosphate treated steel.
- C. Cam Locks (for doors located in ceilings)
  - 1. Flush, screwdriver operated; sufficient number to hold door panel in flush, smooth plane when closed.
- D. Cam Locks (for doors located in walls)
  - 1. Flush screwdriver or key operated; sufficient number to hold door panel in flush, smooth plane when closed.
    - a. One lock on each door panel shall be key operated, pin tumbler type. The remaining locks, if any, shall be screwdriver operated type.

### **2.03 FIRE RATED ACCESS DOORS FOR WALLS**

- A. Frames
  - 1. Minimum 16 gage steel, with integral exposed flange not less than 1" wide around the perimeter.
    - a. Anchorage: Predrilled holes in frame for anchoring with fasteners.
- B. Flush Type Door Panel
  - 1. Minimum 20 gage steel double wall construction with insulation, equipped with automatic closer and inside release mechanism.
    - a. Hinge: Continuous hinge set to open to approximately 175o.
    - b. Finish: Factory-applied baked enamel primer over phosphate treated steel.
- C. Automatic Latches
  - 1. Direct action Knurled knob or turn ring, or key operated; sufficient number to hold door panel in flush, smooth plane when closed.
    - a. One latch on each door panel shall be key operated, pin tumbler type. The remaining latches, if any, shall be knurled knob or turn ring operated type.

### **2.04 KEYING FOR NON-FIRE RATED ACCESS DOORS AND FIRE RATED ACCESS DOORS FOR WALLS**

- A. Key all locks and latches alike. Furnish 6 keys total.

## **2.05 FIRE RATED ACCESS DOORS FOR CEILINGS**

- A. Frames
  - 1. Minimum 16 gage steel, with integral flange 1" wide.
    - a. Anchorage: predrilled holes in frames for anchoring with fasteners.
- B. Flush Type Door Panel
  - 1. Minimum 20 gage steel double wall construction with insulation, equipped with automatic closer and inside release mechanism.
    - a. Hinge: Continuous, set to open approximately 175o.
    - b. Finish: Factory-applied baked enamel primer over phosphate-treated steel.
- C. Automatic Latches
  - 1. Direct action knurled knob or turn ring, of sufficient quantity to hold door panel in flush, smooth plane when closed.
    - a. One latch on each door panel shall be key-operated, pin tumbler type.
    - b. Locking Device: Self-latching key operated cylinder lock. Furnish 6 keys total.

## **2.06 FABRICATION AND MANUFACTURE**

- A. Manufacture access door assemblies as integral units complete with all parts and ready for installation. Fabricate units of continuous welded steel construction unless otherwise indicated or specified. Grind welds smooth and flush with adjacent surfaces. Attachment devices shall be of size and type required to secure access doors to types of supports indicated on the Drawings.
  - 1. Allowable Size Variations: Manufacturer's standard size units that vary slightly from the sizes indicated may be acceptable, subject to the approval of the Authority.

## **2.07 PAINT**

- A. Shop Primers: Provide primers that comply with Division 9 Section "Painting."

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. Install the access doors in accordance with the manufacturer's printed installation instructions, except as shown or specified otherwise.
- B. Coordinate access door installation with installation of supporting construction.
- C. Set units accurately in position and securely attach to support with face panel plumb or level in relation to adjoining finish surface.

### **3.02 ADJUSTMENT**

- A. Adjust hardware and doors for proper operation.
- B. Remove and replace doors and frames that are warped, bowed, or otherwise damaged.

### **3.03 LOCATION**

- A. Provide non-fire rated access doors in non-fire rated construction and fire rated access doors in fire rated construction.

**END OF SECTION**