

**SPECIAL SPECIFICATION**  
**SECTION 08311S**  
**ACCESS DOORS AND FRAMES**

**PART 1 - GENERAL**

**1.01 SECTION INCLUDES**

- A. Fire resistive rated and non-rated access door and frame units at wall, ceiling, and floor locations.

**1.02 PRODUCTS FURNISHED BUT NOT INSTALLED UNDER THIS SECTION**

- A. Section 03300 - Cast-In-Place Concrete: Placement of access frame unit anchors in concrete.

**1.03 RELATED SECTIONS**

- A. Section 03300 - Cast-In-Place Concrete: Openings in concrete.
- B. Section 04300 - Unit Masonry: Openings in masonry.
- C. Section 09260 - Gypsum Drywall Systems: Openings in partitions.
- D. Section 09260 - Gypsum Drywall Systems: Openings in gypsum board ceilings.
- E. Section 09900 - Painting: Field paint finish.
- F. Section 15401S – Plumbing: Plumbing components requiring access.
- G. Section 15910 - Ductwork Accessories: Access doors in ductwork.

**1.04 DESIGN REQUIREMENTS**

- A. Fabricate floor access assemblies to support live load of 100 pounds per square foot with deflection not to exceed 1/240.

**1.05 SUBMITTALS**

- A. Shop Drawings: Indicate exact position of all access units.
- B. Product Data: Provide sizes, types, finishes, scheduled locations, and details of adjoining work.
- C. Samples: Submit two access units, 12 inch by 12 inch in size illustrating frame configuration, anchors and hardware.

D. Manufacturer's Installation Instructions: Indicate installation requirements, rough-in dimensions and finish.

E. Project Record Documents: Record actual locations of all access units.

#### 1.06 QUALITY ASSURANCE

A. Perform Work in accordance with UL requirements.

B. Maintain one copy of [each] document on site.

#### 1.07 REGULATORY REQUIREMENTS

A. Conform to applicable code for fire rated access units.

B. Provide certificate of compliance from authority having jurisdiction indicating approval of fire rated units.

#### 1.08 FIELD MEASUREMENTS

A. Verify that field measurements are as indicated on shop drawings.

#### 1.09 COORDINATION

A. Coordinate the work with mechanical and electrical work requiring access units.

### PART 2 - PRODUCTS

#### 2.01 MANUFACTURERS - WALL AND CEILING UNITS

A. J. L. Industries.

B. KARP, Associates.

C. Milcor, Inc.

#### 2.02 ACCESS UNITS - WALLS

A. Non-Fire Rated Door and Frame Unit: Formed steel.

1. In Cast-in-Place Concrete: Model M3202 manufactured by Milcor.

2. In Masonry: Model M3202 manufactured by Milcor.

3. In Gypsum Board on Steel Studs: Model DW 3203 manufactured by Milcor.

B. Fire Rated Door and Frame Unit: Formed [stainless] steel, finish; 1-1/2 hour fire rating.

1. In Cast-in-Place Concrete: Model 3208 manufactured by Milcor.

2. In Masonry: Model 3208 manufactured by Milcor.
3. In Gypsum Board on Steel Studs: Model 3208 manufactured by Milcor.

#### 2.03 ACCESS UNITS - CEILINGS

- A. Non-Fire Rated Door and Frame Unit: Formed [stainless] steel
  1. In Gypsum Board on Metal Furring: Model DW 3203 manufactured by Milcor.
  2. In Metal T-Bar Ceiling: Model ATR 3204 manufactured by Milcor.
- B. Fire Rated Door and Frame Unit: Formed steel, 1-1/2 hour fire rating
  1. In Gypsum Board on Metal Furring: Model 3210 manufactured by Milcor.
  2. In Plaster on Metal Furring: Model 3210 manufactured by Milcor.

#### 2.04 ACCESS UNITS - ACOUSTICAL LAY-IN CEILINGS

- A. Door and Frame Unit:
  1. Formed steel, 20 gage hot-dipped galvanized steel frame; 20 gage electro-galvanized steel door with 7/32-inch flange stove enamelled white; plastic molded escutcheon caps with hinged flaps.
  2. Locks: Operated with square shanked key.
  3. Door Size: 24 inches by 48 inches to be installed in a 24 inch by 24 inch grid.
  4. In Acoustical Ceiling: Sesame Slime Trim Type KSTE/CAD as manufactured by KARP Associates.

#### 2.05 ACCESS UNITS - SECURITY TYPE

- A. Non-Fire Rated Door and Frame Unit: 3/16-inch by 2-inch by 2-inch frame angle, welded with joints ground smooth, 10 gage steel door panel, heavy duty stainless steel, welded to door and frame; key operated deadbolt lock, prime painted for field finishing.
  1. In Gypsum Board: Model 3200 Series manufactured by Milcor.

#### 2.06 MANUFACTURERS - FLOOR UNITS

- A. Babcock-Davis Hatchways, Inc.
- B. The Bilco Co.
- C. Karp Associates, Inc.

## 2.07 ACCESS UNITS - FLOORS

- A. Non-Fire Rated Hatch and Frame Unit: Formed aluminum steel.
  - 1. In Concrete Floors: Type "K" manufactured by Bilco.
  - 2. In Resilient Flooring: Model "T" manufactured by Bilco.
  - 3. In Carpet Flooring: Model "T" manufactured by Bilco.

## 2.08 FABRICATION - WALL AND CEILING UNITS

- A. Fabricate frames and flanges of 16 gage steel.
- B. Fabricate door panels of 14 gage steel single thickness steel sheet double sheet with integral non-combustible batt insulation filler.
- C. Weld, fill, and grind joints to assure flush and square unit.
- D. Hardware
  - 1. Hinge: 175 degree steel piano hinge with removable pin.
  - 2. Lock: Screw driver slot for quarter turn cam lock.

## 2.09 FABRICATION - FLOOR UNITS

- A. Fabricate frames and anchors of 16 gage steel.
- B. Fabricate hatches of 14 gage single thickness steel; smooth surface finish.
- C. Weld, fill, and grind joints to assure flush and square unit.
- D. Hardware
  - 1. Hinge: 175 degree steel hinges with removable pin.
  - 2. Lock: Screw driver slot for quarter turn cam lock.

## 2.10 FINISHES

- A. Base Metal Protection: Galvanized, hot dipped finish. Prime coat units with alkyd primer.
- B. Finish: Two coats baked enamel, color as selected.

## PART 3 - EXECUTION

### 3.01 EXAMINATION

- A. Verify that rough openings for door and frame are correctly sized and located.

### 3.02 INSTALLATION

- A. Install units in accordance with manufacturer's instructions.
- B. Install frames plumb and level in opening. Secure rigidly in place.
- C. Position unit to provide convenient access to concealed work requiring access.

### 3.03 SCHEDULE

- A. Gypsum Board Ceilings: 24-inch by 24-inch size, screwdriver slot lock, primed and one coat baked enamel "White".
- B. Gypsum Board Walls in Restrooms: Ceramic tile finish type, 12-inch by 12-inch inch size, cylinder lock, primed and two coat baked enamel to match ceramic tile color.
- C. Typical Floor Access Door: Inset for 1/8-inch thick resilient tile finish, 12-inch by 12-inch size, screwdriver slot lock, aluminum, mill finish.

END OF SECTION