

## Access Doors - 08.31.00

### SECTION 08310 ACCESS DOORS AND FRAMES

### PART 1 - GENERAL

### 1.1 SUMMARY

- A. Section includes:
  - 1. [Fire rated] [and] [Non-fire rated] wall access panels.
  - 2. [Fire rated] [and] [Non-fire rated] ceiling access panels.
  - 3. Related hardware and attachments.

EDIT NOTE: MODIFY THIS LIST PER PROJECT REQUIREMENTS.

- B. Related Sections:
  - 1. Section 04810 Unit Masonry Assemblies.
  - 2. Section 09260 Gypsum Board Assemblies.
  - 3. Section 09510 Suspended Acoustical Ceilings.
  - 4. Section 09900 Paints and Coatings.
  - 5. Division 15 Mechanical.
  - 6. Division 16 Electrical.

### 1.2 SYSTEM DESCRIPTION

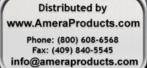
- A. Design Requirements:
  - 1. Verification: Obtain specific locations and sizes for required access doors and frames from trades, including mechanical and electrical, requiring access to concealed equipment and indicate on submittal schedule.

### 1.3 SUBMITTALS

- A. Comply with Section [01300] [01330] [01340] [\_\_\_\_].
- B. Shop Drawings:
  - 1. Door and panel units: Show types, elevations, thickness of metals, full size profiles of door members.
  - 2. Hardware: Show materials, finishes, locations of fasteners, types of fasteners, locations and types of operating hardware, and details of installation.
  - 3. General: Show connections of units and hardware to other Work. Include schedules showing location of each type and size of door and panel units.
- C. Product Data: Manufacturer's technical data for each type of access door and panel assembly, including setting drawings, templates, fire-resistive characteristics, finish requirements, and details of anchorage devices.
  - 1. Include complete schedule, types, locations, construction details, finishes, latching or locking provisions, and other pertinent data.
- D. Manufacturer's Installation Instructions: Indicate installation requirements and rough-in dimensions.

### 1.4 QUALITY ASSURANCE

- A. Comply with Section [01400] [01410] [01430].
- B. Single Source Responsibility: Obtain access door and panel units, and frames for entire Project from 1 source and 1 single manufacturer.





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- C. Fire-Resistance Ratings: Wherever a fire-resistance classification is indicated, provide access door and panel assemblies with panel door, frame, hinge, and latch from manufacturer listed in Underwriter's Laboratories (UL), "Building Materials Directory" for rating shown.
  - 1. Provide 90 minute UL label at 2-hour rated partitions.
  - 2. Provide 3 hour\_Warnock Hersey label at horizontal applications, up to 24 inch wide x 36 inch high.
  - 3. Provide 2 hour Warnock Hersey label at horizontal applications greater than 24 inch wide x 36 inch high.
- D. Size Variations: Obtain Architect's acceptance and approval of manufacturer's standard size units that may vary slightly from sizes indicated on Drawings.
- E. Coordination: Provide inserts and anchoring devices that will be built into other Work for installation of access door assemblies. Coordinate delivery with other Work to avoid delay.
- 1.5 DELIVERY, STORAGE AND HANDLING
  - A. Comply with Section [01600] [\_\_\_\_].
  - B. Package and ship per manufacturer's recommendations.
  - C. Store per manufacturer's instructions.
    - 1. Store in dry area out of direct sunlight.

### 1.6 WARRANTY

- A. Provide manufacturer's written warranty per Section [01795] [\_\_\_\_\_].
- B. Warrant materials and workmanship against defects after completion and final acceptance of Work.
  - 1. Repair defects, or replace with new materials, faulty materials or workmanship developed during the guarantee period at no expense to Owner.
  - 2. Access Panel Warranty: 1 year from date of shipment.

### PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Subject to compliance with requirements, provide products from the following manufacturer:
  - 1. Babcock-Davis

9300 73<sup>rd</sup> Avenue North

Brooklyn Park, MN 55428

- B. Substitutions: Comply with Section [01600] [01630] [\_\_\_\_].
- C. Specifications and Drawings are based on manufacturer's proprietary literature from Babcock-Davis. Other manufacturers shall comply with minimum levels of material, color selection, and detailing indicated in Specifications or on Drawings. Architect will be sole judge of appropriateness of substitutions.

#### 2.2 MATERIALS

- A. Commercial quality, cold steel sheet with baked on rust inhibitive gray primer.
- B. Galvanized, bonderized steel with baked on rust inhibitive gray primer.

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C. Type: No. 304 stainless steel with No. 4 satin polish finish.

### 2.3 ACCESS PANELS

- A. Non rated flush access doors, Babcock-Davis N & P series
  - 1. Door: Fabricate from 14-gauge cold rolled sheet steel.
  - 2. Frame: Fabricate from 16-gauge cold rolled sheet steel. Provide 1/4 inch mounting holes.
    - a. NT All surfaces 1 inch flange at perimeter.
    - b. NW Wallboard surfaces 22-gauge galvanized drywall bead at perimeter.
    - c. NP Plaster surfaces 22-gauge galvanized plaster bead at perimeter.
    - d. PT Stainless Steel 1 inch flange at perimeter.
  - 3. Hinge:
    - a. NT Concealed pin type, spring loaded to allow for door removal, set to open 175 degrees.
    - b. NW and NP Concealed continuous piano hinge.
    - c. PT Pin hinge
  - 4. Latching/Locking Devices: Screwdriver cam latch standard.

### OPTIONS:

- a. Key operated cylinder cam lock with 2 keys per lock, keyed alike.
- b. Preparation to accept a 1 1/8" mortise cylinder. Cylinder and core specified in Division 8 Section "Door Hardware"
- c. Other options as specified.

SELECT ONE OF THE FOLLOWING FINISHES: PHOSPHATE DIPPED IS STANDARD.

- 5. Finish:
  - a. Phosphate dipped with factory applied prime coat.
  - b. Galvanized, bonderized steel, with factory applied prime coat.
  - c. Type No. 304 stainless steel with No. 4 satin polish.
- B. Insulated fire rated access panels for walls and ceilings, Babcock-Davis I series
  - 1. Maximum size horizontal applications = 24 inch x 36 inch.
  - 2. Maximum size vertical applications: IT= 48 inch x 48 inch, IW, and IP= 36 inch x 48 inch.
  - 3. Door: Fabricate from 20-gauge cold rolled sheet steel, insulated sandwich type construction.
  - 4. Frame: Fabricate from 16-gauge cold rolled steel of configuration to suit material application.
    - a. IT All surfaces 1 inch flange at perimeter.
    - b. IW Wallboard surfaces 22-gauge galvanized drywall bead at perimeter.
    - c. IP Plaster surfaces 22-gauge galvanized plaster bead at perimeter.
  - 5. Hinge: Flush continuous piano type on model IT. Concealed pin hinge on style IW and IP.
  - 6. Latching/Locking mechanism: Knurled knob/flush key operated latch bolt standard.

### OPTIONS:

- a. Preparation to accept a 1 1/8" mortise cylinder. Cylinder and core specified in Division 8 Section "Door Hardware"
- b. Other options as specified.

### SELECT ONE OF THE FOLLOWING FINISHES: PHOSPHATE DIPPED IS STANDARD.

- 7. Finish:
  - a. Phosphate dipped with factory applied prime coat.
  - b. Galvanized, bonderized steel, with factory applied prime coat.
  - c. Type No. 304 stainless steel with No. 4 satin polish.
- 8. Insulation: 2 inch thick fire rated mineral fiber.

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- 9. Automatic closure device: Integral automatic spring closure device for each door.
- 10. Interior latch release: Mechanism to allow for panel to open from interior side.
- C. Uninsulated fire rated access panels for walls only, Babcock-Davis U series
  - 1. Maximum size = 36"w x 48"h.
  - 2. Door: Fabricate from 14-gauge cold rolled sheet steel.
  - 3. Frame: Fabricate from 16-gauge cold rolled sheet steel of configuration to suit material application.
    - a. UT- All surfaces 1 inch flange at perimeter.
    - b. UW Wallboard surfaces 22-gauge galvanized drywall bead at perimeter.
    - c. UP- Plaster surfaces 22-gauge galvanized plaster bead at perimeter.

SELECT ONE OF THE FOLLOWING FINISHES: PHOSPHATE DIPPED IS STANDARD.

- 4. Finish:
  - a. Phosphate dipped with factory applied prime coat.
  - b. Galvanized, bonderized steel, with factory applied prime coat.
  - c. Type No. 304 stainless steel with No. 4 satin polish.
- 5. Hinge: Flush continuous piano type.
- 6. Latching/Locking mechanism: Knurled knob/flush key operated latch bolt standard.

OPTIONS:

- a. Preparation to accept a 1 1/8 inch mortise cylinder. Cylinder and core specified in Division 8 Section "Door Hardware"
- b. Other options as specified.
- 7. Automatic closure device: Integral automatic spring closure device for each door.
- 8. Interior release: Mechanism to allow for panel to open from interior side.
- D. Oversized Fire Rated Access Panels for horizontal and vertical applications, Babcock-Davis FRD Series
  - 1. Sizes: 30 inch x 30 inch up to 48 inch x 60 inch for horizontal applications. Call factory for single or double door construction options.
  - 2. Sizes: Greater than 48 inch x 48 inch up to 48 inch x 60 inch vertical applications, all panels to be double door construction.
  - 3. Door: Fabricate from 18-gauge galvanized steel, insulated sandwich type construction. 22 gauge liner.
  - 4. Frame: Fabricate from 16-gauge galvanized steel.
    - a. .875 flange at perimeter.
  - 5. Hinge: Concealed continuous rod opening to 100 degrees.
  - 6. Latching/Locking Mechanism: Factory installed flush <sup>1</sup>/<sub>4</sub> inch allen key, self latching.

SELECT ONE OF THE FOLLOWING TWO FINISHES:

- 7. Finish: White electrostatically applied rust inhibitive prime coat.
  - a. White electrostatically applied rust inhibitive prime coat.
  - b. Options: Type No. 304 stainless steel with No. 4 satin polish.
- 8. Insulation: 1 ½ inches thick high temperature.
- 9. Automatic Closure Device: Integral automatic spring closure device for each door, will close and latch all doors from an open position of approximately 90 degrees.
- 10. Interior Latch Release: Mechanism to allow for panel to open from interior side-standard on all panels.
- E. Inward Opening Fire Rated Access Panels for horizontal applications only, Babcock-Davis FRU series
  - 1. 1. Maximum sizes: 24 inch x 36 inch or 30 inch x 30 inch.
  - 2. Door: Fabricate from 18-gauge galvanized steel, insulated sandwich type construction.
  - 3. 22-gauge liner.
  - 4. Frame: Fabricate from 16-gauge galvanized steel.

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- a. .75 inch flange at perimeter
- 5. Hinge: Concealed continuous piano hinge
- 6. Latching/Locking Mechanism: Factory installed <sup>1</sup>/<sub>4</sub> inch allen key, self latching.

SELECT ONE OF THE FOLLOWING TWO FINISHES:

- 7. Finish:
  - a. White electrostically applied rust inhibitive prime coat.
  - b. Options: Type No. 304 stainless steel with No. 4 satin finish.
- 8. Insulation: 1 <sup>1</sup>/<sub>2</sub> inches thick hig temperature.
- 9. Automatic Closure: Gravity self closing.
- 10. Interior Latch Release: Mechanism to allow for panel to open from interior side-standard on all panels.
- F. Recessed access panels, Babcock-Davis R series
  - 1. Door: Fabricate from 16-gauge cold rolled sheet steel recessed 5/8 inch for in-fill of material.
  - 2. Frame: Fabricate from 16-gauge cold rolled sheet steel of configuration to suit material application.
    - a. RW- Wallboard surfaces 22-gauge galvanized drywall bead at perimeter.
      - b. RP- Plaster surfaces 22-gauge galvanized plaster bead at perimeter.
      - c. RA Acoustical surfaces no surface frame.
  - 3. Hinge: Concealed pivoting rod.
  - 4. Latching: Key operated cylinder cam lock with 2 keys per lock, keyed alike.

OPTIONS:

- a. Preparation to accept a 1 1/8 inch mortise cylinder. Cylinder and Core specified in Division 8 Section "Door Hardware".
- b. Other options as specified.
- 5. Finish: Phosphate dipped with factory applied prime coat.
- G. Security, insulated fire rated access panels, Babcock-Davis S series walls only
  - 1. Door: Fabricate from 14-gauge cold rolled sheet steel, insulated sandwich type construction.
  - 2. Frame: Fabricate from 16-gauge cold rolled sheet steel of configuration to suit material application.
    - a. ST- All surfaces 1 inch flange at perimeter.
    - b. SW- Wallboard surfaces 22-gauge galvanized drywall bead at perimeter.
    - c. SP- Plaster surfaces 22-gauge galvanized plaster bead at perimeter.
  - 3. Hinge: Concealed pin type for concealed frame. Flush continuous piano type for exposed frame and on panels larger than 36 inches in height.
  - 4. Latching:
    - a. Preparation to accept a 1 1/8 inch mortise cylinder. Cylinder and Core specified in Division 8 Section "Door Hardware".
    - b. Detention dead-bolt lock preparation. Lock specified in Division 8 Section "Door Hardware".

SELECT ONE OF THE FOLLOWING FINISHES: PHOSPHATE DIPPED IS STANDARD

- 5. Finish:
  - a. Phosphate dipped with factory applied prime coat.
  - b. Galvanized, bonderized steel.
  - c. Type No. 304 stainless steel with No. 4 satin finish.
- 6. Automatic closure device: Integral automatic spring closure device for each door.
- 7. Interior latch release: Mechanism to allow for panel to open from interior side.
- H. Medium security access doors, Babcock-Davis M series
  - 1. Door: Fabricate from 12-gauge cold rolled sheet steel.

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### 2. Frame: Fabricate from 12-gauge cold rolled sheet steel of configuration to suit material application.

- a. MT- All surfaces 1 inch flange at perimeter.
- b. MW- Wallboard surfaces 22-gauge galvanized drywall bead at perimeter.
- c. MP- Plaster surfaces 22-gauge galvanized plaster bead at perimeter.
- 3. Hinge: Concealed continuous piano type.
- 4. Latching/Locking Mechanism: Pinned allen head security cam latches standard.

### OPTIONS:

- a. Pinned allen head security screws.
- b. Preparation to accept a 1 1/8 inch mortise cylinder. Cylinder and core specified in Division 8 Section "Door Hardware"
- c. Heavy-duty detention deadbolt lock preparation. Lock specified in Division 8 Section "Door Hardware".

SELECT ONE OF THE FOLLOWING FINISHES: PHOSPHATE DIPPED IS STANDARD.

- 5. Finish:
  - a. Phosphate dipped with factory applied prime coat.
  - b. Galvanized, bonderized steel, with factory applied prime coat.
  - c. Type 304 stainless steel with #4 satin finish.
- I. High security access panels, Babcock-Davis HS series
  - 1. Door: Fabricate from 10-gauge cold rolled steel.
  - 2. Frame: Fabricate from 2 inch by 2 inch by 3/16 inch steel angle.
  - 3. Hinge: Heavy-duty steel butt hinge welded to the door and frame (surface mounted).

### OPTIONS:

- a. Continuous piano type.
- 4. Frame: Masonry anchors welded to frame.
- 5. Latching/Locking Mechanism: Pinned allen security screws standard.

### OPTIONS:

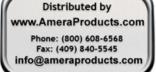
- a. Preparation to accept a 1 1/8" mortise cylinder. Cylinder and core specified in Division 8 Section "Door Hardware"
- b. Heavy-duty detention deadbolt lock preparation. Lock specified in Division 8 Section "Door Hardware".
- 6. Finish: Phosphate dipped with factory applied prime coat.
- J. Maximum security access panels, Babcock-Davis TS series
  - 1. Door: Fabricate from 7-gauge hot rolled steel.
  - 2. Frame: Fabricate from 2 inch by 3 inch by 3/16 inch steel angle.
  - 3. Hinge: Heavy-duty steel butt hinge welded to the door and frame (surface mounted).

### OPTIONS:

- a. Continuous piano type.
- 4. Frame: Masonry anchors welded to frame.
- 5. Latching/Locking Mechanism: Heavy-duty detention lock preparation standard. Lock specified in Division 8 Section "Door Hardware".

#### OPTIONS:

- a. Other options as specified.
- 6. Finish: Phosphate dipped with factory applied prime coat.





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- K. Exterior insulated access panel, Babcock-Davis XT series
  - 1. Door: Fabricate from 20-gauge galvanized steel, insulated sandwich type construction.
  - 2. Hinge: Stainless steel continuous piano type.

OPTIONS:

- a. Type No. 304 stainless steel door only.
- 3. Frame: Fabricate from 6063-T5 extruded aluminum.
- 4. Latching/Locking device: 1 or 2 dual acting handles, depending on door size.

#### OPTIONS:

- a. Lockable handle for exterior only.
- 5. Flange: 0.080 6063-T5 extruded aluminum 1.25 inch flange.
- 6. Finish: Paint grip.
- 7. Insulation: 2 inch thick fiberglass.
- 8. Gasket: Extruded santoprene.
- L. Special lightweight access panel, Babcock-Davis LW series
  - 1. Door: Fabricate from 26-gauge pre-finished embossed galvanized steel.

### OPTIONS:

- a. 0.063 aluminum door panel
- 2. Frame: 0.045 6063–T5 extruded aluminum with rolled 1-5/16 inch flange
- 3. Hinge: Zinc plated continuous piano type.

### OPTIONS:

- a. Aluminum continuous piano type.
- 4. Latching/Locking device: Screwdriver cam latch standard.

### OPTIONS:

- a. Key operated cylinder lock with 2 keys per lock, keyed alike.
- 5. Insulation: 3/4 inch polystyrene with 3.8 R-value at 75 degrees F temperature.
- 6. Finish: White embossed steel.

OPTIONS:

a. Mill finish with 0.063 aluminum panel inserts.

### 2.4 OPTIONS

THE FOLLOWNG MORTISE OPTION MAY BE USED ON N SERIES, I SERIES, U SERIES, S SERIES (WALL ONLY), M SERIES, AND HS SERIES.

A. Mortise cylinder preparation to receive 1 1/8 inch mortise cylinder lock. Lock specified in Division 8 Section "Door Hardware".

### 2.5 FABRICATION

- A. Manufacture each access panel assembly as an integral unit ready for installation.
- B. Welded construction: Furnish with a sufficient quantity of 1/4 inch mounting holes to secure access panels to types of supports indicated.
- C. Recessed panel: Form face of panel to provide specified recess for application of finish material. Reinforce panel as required to prevent buckling.

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D. Furnish number of latches required to hold door in flush, smooth plane when closed.

### PART 3 - EXECUTION

- 3.1 EXAMINATION
  - A. Comply with Section [01700] [\_\_\_\_].
  - B. Verify that rough openings for door and frame are correctly sized and located.
  - C. Verify mechanical and electrical requirements for ceiling or wall access panels.

### 3.2 PREPARATION

A. Advise installers of work relating to access panel installation including rough opening dimensions, locations of supports, and anchoring methods. Coordinate delivery with other work to avoid delay.

### 3.3 INSTALLATION

- A. Install access door and frame units per manufacturer's written instructions.
- B. Install frames plumb and level in opening. Secure rigidly in place.
- C. Position units to provide convenient access to concealed Work requiring access.

DELETE THE FOLLOWING PARAGRAPH IF NO FIRE-RATED UNITS ON PROJECT.

- D. Fire-rated units: Include UL or Warnock-Hersey labels.
- 3.4 ADJUST AND CLEAN
  - A. Adjust panel after installation for proper operation.
  - B. Remove and replace panels or frames that are warped, bowed, or damaged.

### END OF SECTION

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