

SECTION 083100

ACCESS DOORS AND PANELS

SPECIFIER NOTES: This section covers five non-fire-rated access panel products manufactured by BAUCO Access Panel Solutions, Inc. Those panels are: BAUCO Plus, BAUCO Plus II, BAUCO XL, BAUCO Rondo, and BAUCO Softline.

Consult BAUCO Access Panel Solutions, Inc. for assistance when editing this section for your specific application.

PART 1 GENERAL

1.1 SUMMARY

- A. Work Results:
 - 1. Installation of access panels in walls and ceilings.
- B. Principal Products:
 - 1. Drywall access panels.
- C. Section Includes.
 - 1. Wall and ceiling access doors and panels.
- D. Related Requirements.
 - 1. Section 054000 "Cold-Formed Metal Framing" for metal framing of interior partitions and ceilings.
 - 2. Section 061000 "Rough Carpentry" for wood framing of interior partitions and ceilings.
 - 3. Section 061053 "Miscellaneous Rough Carpentry:" for wood blocking in interior framing.
 - 4. Section 092116 "Gypsum Board Assemblies" for gypsum board inlay materials.
 - 5. Section 092900 "Gypsum Board" for gypsum board inlay materials.
 - 6. Section 233700 "Air Outlets and Inlets" for architectural return grilles.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Coordination Procedures:
 - 1. Coordinate sizes and locations with controls, valves, traps, dampers, cleanouts, and similar items requiring operation that are located behind finished surfaces. Size to meet prevailing code to ensure that maintenance personnel can safely and effectively extract and replace equipment.

- B. Pre-Installation Meeting Attendees and Procedures:
 - 1. Conduct meeting two weeks, minimum, before starting Work of this Section.
 - 2. Additional Agenda Items:
 - a. Agenda items:

1.3 ACTION SUBMITTALS

- A. Product Data: Sizes, types, finishes, hardware, scheduled locations, fire resistance listings, and details of adjoining Work.
- B. Shop Drawings:
 - 1. Locations and sizes of wall and ceiling access doors.
- C. Samples: 12 by 12 inch unit with required frame, anchors, and finish.
 - 1. Samples will be returned to Contractor for installation in Project.

1.4 SUSTAINABILITY SUBMITTALS

- A. Building Product Disclosure and Optimization: Material ingredients documentation.
 - 1. Aluminum: Minimum 25 percent post-industrial recycled content.
 - 2. Galvanized Steel: Minimum 50 percent post-industrial recycled content.

1.5 CLOSEOUT SUBMITTALS

- A. Project Record Documents: Record actual locations and sizes of access doors and panels.
- B. Maintenance data.

1.6 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Fire Rated Door Inspector: NFPA 80, Section 5.2.3.1.
- B. Field Samples: Install access doors for each type in locations acceptable to Architect.
 - 1. Approved Samples establish Work results standard.
- C. Mockups: Provide access doors in mockup specified in Section 014000 "Quality Requirements."
 - 1. Approved mockups establish Work results standard.

PART 2 PRODUCTS

2.1 WALL AND CEILING ACCESS DOORS AND PANELS

SPECIFIER NOTES: BAUCO Plus II access panels are recommended for wall and ceiling installation.

- A. Non-Fire-Rated Rear-Mounted Access Doors, Tag AP-xx: Recessed Non-fire-rated access panel for gypsum board.
1. Manufacturers and Products:
 - a. BAUCO .Access Panel Solutions Inc. BAUCO Plus II Rectangular and Square Access Panel.
 2. Substitutions: Not permitted.
 3. Locations: Interior walls and ceilings.

SPECIFIER NOTES: Sizes refer to clear opening sizes. Rough opening size (stud to stud) shall be an additional 1-1/4 inches to each side. Custom sizes are available on short lead times, with the following restrictions:

- BAUCO Plus II: 6 inches minimum (height or width); no maximum size.

4. Size: [6 inches by 6 inches] [8 inches by 8 inches] [10 inches by 10 inches] [12 inches by 12 inches] [14 inches by 14 inches] [16 inches by 16 inches] 18 inches by 18 inches] [20 inches by 20 inches] [24 inches by 24 inches] [24 inches by 36 inches] [Add custom size].
 5. Door Infill Thickness: See Drawings.
 6. Infill Materials: Manufacturer's standard moisture and mold-resistant gypsum board.
 7. Infill Material: See [Section 092116 "Gypsum Board Assemblies"] [Section 092900 "Gypsum Board"] for specified gypsum board.
 8. Frame Material: Aluminum; ASTM A209, Alloy 6063, Temper T6 frames, supports and bracing.
 9. Hinges: Free pivot hinge allowing for easy door removal and full access.
 10. Latches: [Manufacturer's standard touch latch] [Screwdriver operated cam lock] [Torx tamper resistant cam lock] [Keyed cylinder cam lock]
 11. Accessories:
 - a. EPDM gasket.
 - b. Nylon coated wire braid safety cable test rated to 135 pounds with crimp connections and spring snap aluminum carabineer.
 12. Finish: [Unfinished moisture and mold resistant gypsum board] [Factory primed with BAUCO Paint-Ready option].
- B. Non-Fire-Rated Rear-Mounted Access Doors, Tag AP-xx: Recessed Non-fire-rated access panel for gypsum board.
1. Manufacturers and Products:

- a. BAUCO Access Panel Solutions Inc. BAUCO Plus Rectangular and Square Access Panel.
2. Substitutions: Not permitted.
3. Locations: Interior walls and ceilings.

SPECIFIER NOTES: Sizes refer to clear opening sizes. Rough opening size (stud to stud) shall be an additional 1-1/4 inches to each side. Custom sizes are available on short lead times, with the following restrictions:

- BAUCO Plus: 8 inches minimum (height or width), 36 inches maximum height; 24 inches maximum width per leaf. Double leaf units available.

4. Size: [8 inches by 8 inches] [10 inches by 10 inches] [12 inches by 12 inches] [14 inches by 14 inches] [16 inches by 16 inches] 18 inches by 18 inches] [20 inches by 20 inches] [24 inches by 24 inches] [24 inches by 36 inches] [Add custom size].
5. Frame Material: Aluminum; ASTM A209, Alloy 6063, Temper T6 frames, supports and bracing.
6. Hinges: Pin hinge, fixed to door. Door opens to 160 degrees and is fully removable.
7. Latches: [Manufacturer's standard touch latch] [Screwdriver operated cam lock] [Torx tamper resistant cam lock] [Keyed cylinder cam lock]
8. Accessories:
 - a. Nylon coated wire braid safety cable test rated to 135 pounds with crimp connections and spring snap aluminum carabineer.
9. Finish: [Unfinished moisture and mold resistant gypsum board] [Factory primed with BAUCO Paint Ready Option]

SPECIFIER NOTES: BAUCO XL access panels are recommended for large wall openings but are also compatible with ceiling installation where a front-mounting access panel is desired.

- C. Non-Fire-Rated Front-Mounting Recessed Drywall Access Panels. Tag AP-xx.
 1. Manufacturers and Products:
 - a. BAUCO Access Panel Solutions Inc. BAUCO XL Access Panel.
 2. Substitutions: Not permitted.
 3. Locations: Interior walls and ceilings.

SPECIFIER NOTES: Sizes refer to clear opening sizes. Rough opening size (stud to stud) shall be an additional 3/8 inches to each side. Custom sizes are available on short lead times, with the following restrictions:

- BAUCO XL: 24 inches by 36 inches minimum; 22 sq. ft. per leaf maximum.

4. Size: 24 inches by 36 inches, minimum; 22 sq. ft. per leaf maximum.
5. Door Infill Thickness: See Drawings.

6. Infill Materials: Manufacturer's standard moisture- and mold-resistant gypsum board.
7. Infill Material: See [Section 092116 "Gypsum Board Assemblies"] [Section 092900 "Gypsum Board"] for specified gypsum board materials.
8. Frame Material: Aluminum; ASTM A209, Alloy 6063, Temper T6 frames, supports and bracing.
9. Hinges: Concealed pivoting hinge to allow for 105 degree door swing.
10. Latches: [Manufacturer's standard touch latch] [Screwdriver operated cam lock] [Torx tamper resistant cam lock] [Keyed cylinder cam lock]
11. Accessories:
 - a. Foam filled bulb gasket.
 - b. Nylon coated wire braid safety cable test rated to 135 pounds with crimp connections and spring snap aluminum carabineer.
12. Finish. :[Unfinished moisture and mold resistant gypsum board] [Factory primed with BAUCO Paint-Ready option].

D. Non-Fire-Rated Circular Rear-Mounted Access Door, Tag AP-xx: Recessed Circular Non-fire-rated access panel for gypsum board.

1. Manufacturers and Products:
 - a. BAUCO Access Panel Solutions Inc. BAUCO Rondo Access Panel.
2. Substitutions: Not permitted.
3. Locations: Interior ceilings.

SPECIFIER NOTES: Sizes refer to clear opening sizes. Rough opening size (stud to stud) shall be an additional 1-1/4 inches to each side.

- BAUCO Rondo: 12 inch, 16inch, 24 inch, no custom sizes available.

4. Size: [12 inch diameter] [16 inch diameter] [24 inch diameter].
5. Door Infill Thickness: See Drawings.
6. Infill Materials: Manufacturer's standard moisture- and mold-resistant gypsum board.
7. Infill Material: See [Section 092116 "Gypsum Board Assemblies"] [Section 092900 "Gypsum Board"] for specified gypsum board and concrete backer board materials.
8. Frame Material: Aluminum; ASTM A209, Alloy 6063, Temper T6 frames, supports and bracing.
9. Hinges: Free pivot hinge allowing for easy door removal and full access.
10. Latches: [Manufacturer's standard touch latch] [Screwdriver operated cam lock] [Torx tamper resistant cam lock] [Keyed cylinder cam lock]
11. Accessories:
 - a. Closed cell foam gasket. Nylon coated wire braid safety cable test rated to 135 pounds with crimp connections and spring snap aluminum carabineer.
12. Finish: [Unfinished moisture and mold resistant gypsum board] Factory primed with BAUCO Paint-Ready option.

E. Non-Fire-Rated Flush Steel Front-Mounted Access Doors. Tag AP-xx: Non-fire rated flush door with exposed frame.

1. Manufacturers and Products:
 - a. BAUCO Access Panel Solutions, Inc.; BAUCO Softline.
2. Substitutions: Not Permitted.

3. Locations: Interior walls and ceilings.
 4. Size: [6 inches by 6 inches] [8 inches by 8 inches] [10 inches by 10 inches] [12 inches by 12 inches] [14 inches by 14 inches] [16 inches by 16 inches] 18 inches by 18 inches [20 inches by 20 inches] [24 inches by 24 inches] [Add custom size].
 5. Frame Material: Steel sheet; ASTM A879.
 - a. Door: 0.0375 inch thick (20 gage), nominal.
 - b. Frame: 0.0375 inch thick (20 gage) with four concealed adjustable wall anchor tabs with pre-punched holes for fasteners.
 - c. Finish: Factory powder coat.
 - 1) Color: White (RAL 9016).
 - d. Hinges: Concealed pin hinge, reversible for left or right and opening.
 - e. Latches: [Manufacturer standard mechanical touch latch] [Keyed cylinder lock].
- F. Fire Rated Access Doors: Flush doors with concealed flange.
1. Manufacturers and Products:
 - a. BAUCO Access Panel Solutions Fire Protect L1C.
 - b. BAUCO Access Panel Solutions Fire Protect L2W.
 2. Substitutions: Not permitted.

SPECIFIER NOTES: Sizes refer to clear opening sizes. Rough opening size (stud to stud) shall be an additional 5/16" to each side or size/clear opening plus 5/8".

3. Sizes: [12 inches by 12 inches] [18 inches by 18 inches] [24 inches by 24 inches].
4. Fire Rating:
 - a. One-hour fire rating for ceiling installations in accordance with ASTM E119 and CAN/ULC S101.
 - b. Two -hour fire rating for wall and partition installations in accordance with UL 10B, NFPA 252, and CAN/ULC S104,
5. Material: Galvanized steel sheet; ASTM A653.
 - a. Door: 0.052 inch thick (18 gage), nominal.
 - 1) Door Infill:
 - a) Insulation: Mineral fiber board.
 - b) Moisture- and mold-resistant magnesium oxide (MgO) board ready to receive drywall finish.
 - b. Frame: 0.079 inch thick (14 gage), nominal.
 - 1) Integrated bead for joint compound.
6. Hinges: Concealed single pin type.
7. Latches: Self-closing spring, self-latching hardware, Slam type with interior release, flush face plate, actuated by proprietary tool..

2.2 PERFORMANCE

- A. Fire Rated Access Door Construction:
1. Wall Access Doors: NFPA 252 or UL 10B, CAN/ULC S104
 2. Ceiling Access Doors: ASTM E119, CAN/ULC S101

- B. Installed Fire-Rated Access Door Assembly: Conform to NFPA 80 for rating shown on Drawings.
- C. Attach label from agency approved by authority having jurisdiction to identify each fire rated access door.

2.3 MATERIALS

- A. Galvanized Steel Sheet: ASTM A653, Structural Quality.
- B. Insulation: Mineral wool board, 2 inches (50mm) thick.
- C. Finish Board: Magnesium Oxide, 5/8 inches (18mm) thick.

2.4 FINISHES

- A. Powder Coating: Thermoset polyester, AAMA 2603, 0.03 inches (0.7 mm) thick.
 - 1. Color: Manufacturer's standard white.
- B. Powder Coating: One coat fluoropolymer finish, AAMA 2604.
 - 1. Color: Manufacturer's standard white.
- C. Powder Coating: One coat fluoropolymer finish, AAMA 2605.
 - 1. Color: Manufacturer's standard white.

2.5 FABRICATION

- A. Welded Units: Fabricate units of continuous welded construction; weld, fill, and grind exposed joints flush and smooth.
- B. Size Variations: Obtain acceptance of manufacturers standard size units which vary slightly from sizes shown or scheduled.
- C. Provide manufacturers recommended anchorage fasteners for Project applications.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify rough openings for access doors and panels are correctly sized and located.

3.2 INSTALLATION

- A. Secure frames rigidly in place, plumb and level in opening, with plane of door and panel face parallel to adjacent finished surface.
 - 1. Set concealed frame type units flush with adjacent finished surfaces.

- B. Position units to provide convenient access to concealed Work requiring access.
- C. Install fire-rated units in accordance with NFPA 80 and requirements for fire listing.
- D. Install manufacturer's proprietary ventilation grille in accordance with manufacturer's instructions. See Section 233700 "Air Outlets and Inlets."

3.3 FIELD QUALITY CONTROL

- A. Field Tests and Inspections: inspectors to perform tests and inspections and prepare reports. Allow inspectors access to Work areas.
 - 1. Retesting of Failed Tests: Performed at Contractor expense.
- B. Fire-Rated Access Panels: Inspect per NFPA 80, Section 5.2.
- C. Non-Conforming Work: Remove and replace non-conforming work. Retest corrected or new work.

END OF SECTION