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 Product Specification Guide

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) Format, including *MasterFormat, SectionFormat,* and P*ageFormat,* contained in the CSI *Manual of Practice.*

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

ACCESS DOORS AND FRAMES

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Specifier Notes: This section covers five products manufactured by BAUCO Access Panel Solutions Inc., including four models of virtually invisible drywall inlay access doors/panels:

* BAUCO Plus II
* BAUCO XL
* BAUCO Plus
* BAUCO Rondo

And one model of removable air-return grilles that can function as access panel:

* BAUCO Air

(Bauco Air can be installed independently in drywall walls or ceilings or can be factory installed in drywall access panel door leaf.)

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

**PART 1: GENERAL**

# RELATED DOCUMENTS

Drawings and general provisions of the contract, including supplementary conditions and Division 1 specification sections, apply to this section.

# SUMMARY

SECTION 083100 - Access Doors and Frames includes access panels and frames for the following types of installations:

* + 1. **Wall** access panels and frames
		2. **Ceiling** access panels and frames

# RELATED SECTIONS:

Applicable related specification sections:

* + 1. Section 061053 - Miscellaneous Rough Carpentry
		2. Section 080000 - Door Hardware (for mortise cylinder lock)
		3. Section 092116 - Gypsum Board Assemblies.
		4. Section 092300 - Gypsum Plastering.
		5. Section 160000 - Ceiling Access Panels (for ballasts and transformers)
		6. Section 233700 - Air Outlets and Inlets

# SUBMITTALS

* + 1. General: In accordance with conditions of Division 1 specifications

Specifier Notes:

BAUCO Plus II, BAUCO Plus, BAUCO XL, BAUCO Rondo, and BAUCO Air full resources section (including submittal documents and installation instructions) available here: <https://bauco.com/resources/>

* + 1. Manufacturer’s submittals documents and installation instructions.

# QUALITY ASSURANCE

* + 1. So there shall be no division of responsibility, all access panels shall be supplied by a single manufacturer under a single contract.
		2. Obtain design professional’s approval for all panel sizes that vary from the general dimensions listed in these specifications, if they are not in accordance with manufacturer’s standards.

# COORDINATION & RESPONSIBILITY FOR ACCESS PANELS & AIR RETURN GRILLES ON SITE

* + 1. Determine specific locations and sizes for access panels needed to gain access to concealed equipment & indicate on schedule specified under “submittals” article.
		2. Access panels to gain access to equipment specified in Division 15 & 16 and where panels are not shown on drawings are to be provided by the applicable subcontractor and in compliance with requirements listed in these sections.
		3. Determine specific locations and sizes for air return grilles (access panels) needed to provide return air flow and to gain access to concealed equipment & indicate on schedule specified under “submittals” article.
		4. Air return grilles to provide ventilation and access to equipment specified in Divisions 21, 22, 23, 24, 25, 26, 27 & 28. Grilles not shown on drawings are to be provided by the applicable subcontractor and in compliance with requirements listed in these sections.

# DELIVERY, STORAGE AND HANDLING

* + 1. Package and ship in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
		2. Store indoors in a dry area out of direct sunlight in compliance to manufacturer’s instructions.
		3. Protect materials and finishes from damage during handling and installation.

**PART 2: PRODUCTS**

# MANUFACTURER / DISTRIBUTOR

# BAUCO Access Panel Solutions, Inc.

# 834 Devonshire Road, Victoria, BC, V9A 4T4 Canada

# Toll-Free Tel: 1-877-592-0033 or 1-250-592-0033

# Toll-Free Fax: 1-877-592-7587 or 1-250-595-0513

# info@Bauco.com [www.Bauco.com](http://www.bauco.com)

# Substitutions: Not permitted.

* + 1. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

# ACCESS DOORS AND FRAMES

## A. Virtually Invisible Rear-Mount Recessed Drywall Access Panel for Walls or Ceilings

# Products:

# BAUCO Plus II: Rectangular access panel with free-pivot hinge for wall or ceiling

# BAUCO Plus: Rectangular access panel with pin hinge for wall or ceiling

# BAUCO Rondo: Round access panel with free-pivot hinge for ceiling

* + - * Description: Non-fire rated recessed access doors with concealed hardware and gypsum board inlay for flush installation and virtually invisible finish. Install on the rear of surrounding wallboard.
			* Features:
				+ 2.8mm thick aluminum inner and outer frame
				+ Factory-installed, screwed-in-place gypsum board (or equivalent) door leaf inlay, to match surrounding wall or ceiling surface
				+ Galvanized steel internal corner reinforcing
				+ Inner and outer frame edge raised in a 0.5mm raised to accept finishing compound for a flush frame finish
				+ Concealed free-pivot (or pin) hinge to allow all doors to open at least 120 degrees
				+ Nylon-coated wire braid safety cable, test rated for 135lb (61kg), with crimp connections and spring snap aluminum carabineer
				+ Lift-out door leaf for fully clear access opening
				+ EPDM rubber gasket, in conjunction with the wall board, to maintain STC rating of surrounding wall or ceiling assembly
				+ For larger panels 3/4” aluminum square tubing or steel U-channel reinforcing on back of large door leaves
				+ Some large doors provided in multi-leaf formats with no bar between leaves
			* Material Overview:
				+ Aluminum alloy 6063-T6 frames, supports, and bracing with at least 25% post-industrial recycled content by weight
				+ Moisture- and mold-resistant gypsum board inlay with at least 21% post-consumer recycled content by weight
				+ Galvanized steel internal hardware with at least 50% post-industrial recycled content by weight
				+ EPDM rubber gasket
			* Location: **[Wall] [Ceiling] [Both wall and ceiling]**
			* Assembly thickness:**[5/8” (15.9mm)]** **[1/2” (12.7mm)]**
			* Opening size: **<Please specify>**

Specifier Notes: Sizes refer to clear opening size, which will be 2 1/2” smaller than the rough framed (stud-to-stud) opening. Custom sizes are available on short lead times, with the following restrictions:

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

BAUCO Plus: 8” minimum (height or width); 36” maximum (height); 24” maximum (width) per leaf maximum (double-leaf available)

BAUCO Rondo: 12”, 18”, or 24” diameter; no custom sizes available

* + - * Inlay: Furnish access door with factory-installed inlay.**[Moisture- and mold-resistant gypsum board - Standard] [Acoustic gypsum board] [Tilebacker gypsum board] [Cement board] [Plywood] [Other - Please confirm with manufacturer].** Access door inlay shall equal surrounding substrate specifications to ensure acoustic integrity and flush finish.

## Latch: [Concealed mechanical touch latches - Standard] [Slotted cam latch] [Tamper-resistant torx cam latch] [Concealed mechanical touch latches and keyed-alike cylinder lock] [Concealed mechanical touch latch and slotted cam latch] [Concealed mechanical touch latch and tamper-resistant torx cam latch]

## Integrated air return grille option: BAUCO Air grille core at <Please specify grille height, width, and placement in door>

* + - * Framing: For a proper fit between framing members the rough framed opening will be 2 1/2” greater than clear opening size. This 2 1/2” allowance provides the door frame size 1 1/8” plus 1/8” allowance on all sides of the panel.
			* Finish: Installers shall apply the same finish and paint to door leaf as the surrounding surfaces. When installed and finished the access panel shall be flush with the wall or ceiling surface and only a one sixteenth of an inch shadow gap shall be visible. For best results, setting-type gypsum finishing compound is recommended. Apply compound separately to the door leaf and surrounding wall or ceiling area up to recessed access panel frame. No taping required.

* + 1. Virtually Invisible Front-Mounting Recessed Drywall Access Panels

# Products:

# BAUCO XL

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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. BAUCO Plus II access panels are recommended in most cases for ceiling installation.

* + - * Description: Heavy-duty non-fire rated recessed access doors with concealed hardware and gypsum board inlay for flush installation and virtually invisible finish. Install on the front of surrounding wallboard.
			* Features:
				+ 2.8mm thick aluminum inner and outer frame
				+ Front-mounting aluminum frame provides solidly integrated finishing bead with countersunk holes to receive fastener heads
				+ Factory-installed, screwed-in-place gypsum board (or equivalent) door leaf inlay, to match surrounding wall or ceiling surface
				+ Galvanized steel internal corner reinforcing
				+ Inner and outer frame edge raised in a 0.5mm to accept finishing compound for a flush frame finish.
				+ Outer drywall finishing flange with a bead to prevent cracking or damage and ensuring a straight, smooth finish.
				+ Concealed hinge made of heavy-duty, galvanized steel components with variable pivot point in double track to allow all doors to open 105 degrees
				+ Nylon-coated wire braid safety cable, test rated for 135lb (61kg), with crimp connections and spring snap aluminum carabineer
				+ Lift-out door leaf for fully clear access opening
				+ Closed-cell foam-filled rubber gasket to maintain STC rating of surrounding wall or ceiling assembly
				+ Aluminum tube or steel U-channel reinforcing on back of door leaves
				+ Large doors provided in multi-leaf formats with no bar between leaves
			* Material Overview:
				+ Extruded aluminum alloy 6063-T6 frames, supports, and bracing with at least 25% post-industrial recycled content by weight
				+ Moisture- and mold-resistant gypsum board inlay with at least 21% post-consumer recycled content by weight
				+ Galvanized internal steel hardware with at least 50% post-industrial recycled content by weight
				+ Closed-cell foam-filled rubber gaskets

## Inlay: [Standard moisture and mold-resistant gypsum board] [Acoustic gypsum board] [Tilebacker gypsum board] [Cement board] [Plywood] [Other – Please confirm with manufacturer]. Access panel inlay shall equal surrounding substrate specifications to ensure acoustic integrity and flush finish.

* + - * Location: **[Wall] [Ceiling] [Both wall and ceiling]**

## Assembly thickness: Face-mounting 5/8” (15.9mm) thick access door sits flush with wall or ceiling assemblies of any thickness.

* + - * Opening size: **<Please specify>**

Specifier Notes: Sizes refer to clear opening size, which will be 1 1/4” smaller than the rough framed (stud-to-stud) opening. Custom sizes are available on short lead times, with the following restrictions:

BAUCO XL: 24” x 36” minimum; 22 ft. sq. per leaf maximum (double-leaf available)

* + - * Factory finish: **[Unfinished door leaf] [BAUCO Paintready option]**

## Latch: [Concealed mechanical touch latches (Standard)] [Slotted cam latch] [Tamper-resistant torx cam latch] [Concealed mechanical touch latches and keyed-alike cylinder lock] [Concealed mechanical touch latch and slotted cam latch] [Concealed mechanical touch latch and tamper-resistant torx cam latch]

## Integrated air return grille option: BAUCO Air grille core at <Please specify grille height, width, and placement in door>

* + - * Framing: For a proper fit the rough framed opening will be 1 1/4” greater than clear opening size. This additional 1 1/4” provides for two times the door frame size thickness plus 1/16” allowance on all sides of the panel.
			* Finish:Installers shall apply the same finish and paint to door leaf as the surrounding surfaces. When installed and finished the access panel shall be completely flush with the wall or ceiling surface and only a 5/64” (2 mm) shadow gap shall be visible. BAUCO XL access panels require finishing using common trade tools. For best results a setting-type gypsum finishing compound is recommended. Apply compound separately to the door leaf up to trim leading edge and to the finishing bead along the door frame.
		1. Flush Sheet-Metal Access Panels:
			- Products:
				* BAUCO Softline
			- Description: Non-fire rated flush sheet-metal access doors with soft transition frames for wall or ceiling
			- Features:
				* 20 gauge galvanized sheet metal door and frame
				* Visible, low profile flange frame only 1.8 mm above finished wall or ceiling surface, with soft transition frame edge and no visible joints or welds
				* Concealed pin hinge, reversible for right- or left-hand hinging
				* Fully removable door
				* 4 concealed adjustable wall anchor tabs with prepunched holes for fasteners
			- Material Overview:
				* Galvanized steel hardware with at least 50% post-industrial recycled content by weight

## Latch: [Concealed mechanical touch latches - Standard] [Concealed mechanical touch latches and keyed-alike cylinder lock]

* + - * Location: **[Wall] [Ceiling] [Both wall and ceiling]**
			* Opening size: **<Please specify>**

Specifier Notes: Custom sizes are available on orders over 100 pcs. See the list of standard sizes on the manufacturer’s website here:

[Bauco.com/products/BAUCO-softline/](file:///C%3A%5CUsers%5Cs.gleaveriemann%5CAppData%5CRoaming%5CMicrosoft%5CWord%5Cbauco.com%5Cproducts%5Cbauco-softline%5C)

* + - * Framing: For a proper fit, the rough framed opening will be 1/4” greater than product code sizing.
			* Finish:Powder coat painted white (RAL 9016).

# Air-Return Grilles to Function as Access Panels

Specifier Notes: BAUCO Air air-return grilles can be integrated into any drywall surface. This includes the face of access panels with drywall inlay, such as BAUCO Plus II and BAUCO XL models. As the grille core is fully removable, BAUCO Air can function as an access panel on its own, if required.

* + - * Product:
				+ BAUCO Air
			* Description: Recessed architectural air-return grilles with removable grille core and concealed hardware for flush installation in drywall.
			* Features:
				+ 2.8mm thick aluminum outer frame
				+ Galvanized steel internal corner reinforcing
				+ Outer frame edge raised in a 0.5mm meniscus rise to accept finishing compound for near invisible flush frame finish
				+ Linear bar grille core fabricated in 2.8mm thick extruded aluminum alloy 6063-T6
				+ Vanes angled down at 49 degrees
				+ Free area of 48% and 25/64” between vanes
				+ Concealed, galvanized steel free pivot hinge shall allow all doors to open 120 degrees
				+ Removable, dishwasher-safe grille core for full access and easy cleaning
				+ Ceiling configuration grille provided with nylon-coated wire braid safety cable, test rated for 135lb (61kg), with crimp connections and spring snap aluminum carabineer
			* Material Overview:
				+ Extruded aluminum alloy 6063-T6 frames, supports, and bracing with at least 25% post-industrial recycled content by weight
				+ Galvanized internal steel hardware with at least 50% post-industrial recycled content by weight
			* Vane finish: **[mill finish]** **[anodized] [white powder coat] [colored powder coat – consult manufacturer for availability]** finish.

## Latch: [Concealed mechanical touch latches] [Fixed attachment with machine screws]

* + - * Location: **[Wall] [Ceiling] [Both wall and ceiling]**
			* Assembly thickness: **[5/8” ( mm)]** **[1/2” ( mm)]**
			* Opening size: **<Please specify>**

Specifier Notes: Custom sizes are available on short lead times, with the following restrictions:

BAUCO Air: 6” minimum (height or width); 48” maximum (height or width)

* + - * Framing: For a proper fit between framing members the rough framed opening will be 2 1/2” greater than product code sizing. This 2 1/2” allowance provides the door frame size 1 1/8” plus 1/8” allowance on all sides of the grille.
			* Finish:When installed and finished the access panel shall be completely flush with the wall or ceiling surface and only a 5/64” (2 mm) shadow gap shall be visible. BAUCO Air access panels require finishing around the concealed frame using common trade tools. No taping required.

# FABRICATION

* + 1. Manufacture each access panel and grille assembly as an integral unit ready for site installation.
		2. Furnish number of latches required to hold door or grille flush for a smooth uniform panel appearance when closed.
		3. Larger sizes bracing will be added to add rigidity and/or prevent sagging.
		4. Supply rear of panel door with acoustic treatment when specified.
		5. Provide installation instructions with each access panel and grille.
		6. Back of panel label indicating product model and size.

**PART 3: EXECUTION**

# EXAMINATION

* + 1. Examine areas to receive access doors or grilles. Notify Architect if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

# PREPARATION

* + 1. Advise installers of work relating to access panel installation including rigidity and dimensions of rough opening, frame attachment to drywall and the location of screw fasteners, and filler requirements Coordinate delivery with other work to avoid delay.

# INSTALLATION

* + 1. Locate access panels for proper access to concealed equipment requiring access.
		2. Prepare the framing and drywall substrate according to the [manufacturer's installation guidelines](https://bauco.com/resources/)
		3. Anchor outer frames securely in place with enough fasteners precisely located.
		4. Ensure filler compound does not remain beyond height of outer and door leaf frames.

# ADJUST AND CLEAN

* + 1. Adjust panel after installation for proper operation. Remove drywall compound from hinge, frame and door leaf edge. Clean the frame and door with a damp cloth.
		2. Remove and replace panels or frames that are warped, bowed, or damaged.

# TECHNICAL SUPPORT

* + 1. BAUCO Access Panel Solutions, Inc.

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info@Bauco.com [www.Bauco.com](http://www.Bauco.com)

* + 1. Additional information and resources from manufacturer including product info sheets, submittal sheets, and installation videos can be found [here](https://bauco.com/resources/).

 **END OF SECTION**