

SECTION 10 22 19 | DEMOUNTABLE PARTITIONS

PART 1 GENERAL

1.1 Summary

- A. This section specifies the Bridgewall Melius demountable partition wall system including all framing aluminum components, doors and door hardware as indicated on the construction drawings. All required adhesives and fasteners, plus all materials needed for complete assembly are included.

1.2 Section Includes

- A. Manufactured aluminum framing
- B. Glass and glazing
- C. Doors, frames and door hardware
- D. Film, vinyl overlays, custom glass finishes are available

1.3 References

- A. ASTM E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions
- B. NAAWS3.1- North American Architectural Woodwork Standards manual- current edition
- C. ASTM B221 – Standard Specification for Aluminum-Alloy Extruded Bars, Rods, Wires, Shapes and Tubes.

1.4 Submittals

- A. Submittals for assessment
 - 1. Submit shop drawings from manufacturer detailing:
 - a. Partition panel layout(s) in both plan and elevation views
 - b. Opening locations
 - c. Opening sizes
 - d. Relationship to any adjacent construction
 - 2. Standard aluminum finish submittal: single aluminum sample of standard finishes: clear anodized or black powder coat.

3. Premium anodized samples: single sample of dark bronze, light bronze, and champagne will be submitted for review when requested.
 4. Custom aluminum finish submittal: submit two samples for review and approval/ comment with one to be retained by the consultant and the other one returned for coordination purposes.
- B. Manufacturer information:
1. Provide manufacturer's literature with Melius system overview, door and finish option overviews, and door technical summaries
 2. Provide manufacturers website
- C. Quality Control Submittals.
1. finish sample showing specified color
 2. Product data samples of each hardware component

1.5 Quality Assurance

- A. Installer Qualifications
1. All Bridgewall systems are to be installed by manufacturer authorized installation teams to meet warranty requirements.
- B. Manufacturer Qualifications
1. All doors and associated hardware and glazing must be supplied by Bridgewall to ensure compatibility (and meet warranty requirements)
 2. All partition components must be supplied by Bridgewall to ensure warranty requirements

1.5 Delivery, Storage, and Handling

- A. Materials must be delivered to site in the original manufacturer's packaging.
- B. Store materials in a dry and secure location that is safe from unwanted moisture. Protect finished surfaces from moisture and scratching.

1.6 Warranty

- A. Provide manufacturers standard warranty
1. Bridgewall will provide a five-year warranty in accordance with the Bridgewall warranty document.

2. Provide operation and maintenance data for incorporation into the Operation and Maintenance Manual.

PART 2 PRODUCT

2.1 Manufacturer

A. Systems provided by:

Bridgewall Systems
89 Paramount Road
Winnipeg, MB
R2X 2W6
Phone: 866-334-3940
Website: www.bridgewallsystems.com

2.2 Demountable Partition System

A. General

1. Provide demountable partition system including all required parts. Door frames and doors to be pre-drilled for assembly and installation.
2. System is intended to be installed on top of finished floors using a base extrusion fastened directly to the existing floor.
3. Review section details and installation instructions for system connections and layout.

B. Frame Materials

1. Aluminum Extrusion (select one per project):
 - a. Standard Finishes (Choose one):
 - i. Clear anodized
 - ii. Black powder coat
 - b. Premium and RAL powder coat finishes
 - i. Per consultant's color selection
 - c. Custom finishes developed in association with design team.
2. Pull Hardware: **To be specified**

3. Hinges: Bridgewall stainless steel pivot hinges
4. Concealed overhead closers with soft close and 90 degree hold open standard on hinged doors
5. Sliding door tracks complete with dual soft close features for smooth operation on sliding doors
6. Glass
 - a. 3/8" inch (10 mm) glass (34 STC) standard single glazed
 - b. (2) 3/8" inch (10 mm) glass (42 STC) standard double glazed
 - c. Other thicknesses/ compositions available for increased STC

2.3 Standard Modules

A. Single Glazed Wall Dimensions:

1. Wall (extrusion) Thickness: 1 ¼ inches (32 mm)
2. Glass panel width: 6 inches (150 mm) minimum, 48 inches (1200 mm) maximum
3. Top Rail Height: 2 ½ inches (64 mm)
4. Bottom Trim Height: 1 ¼ inches (32 mm)
5. Maximum Height: 120 inches (3048 mm)

B. Double Glazed Wall Dimensions (if specified):

1. Wall (extrusion) Thickness: 2 3/8 inches (32 mm)
2. Glass panel width: 6 inches (150 mm) minimum, 48 inches (1200 mm) maximum
3. Top Rail Height: 2 ½ inches (64 mm)
4. Bottom Trim Height: 1 ¼ inches (32 mm)
5. Maximum Height: 120 inches (3048 mm)

C. Single Glazed Sliding Door Frame Dimensions:

1. Overall Top Width (Top Rail + Sliding Door Track): 3 ¾" inches (95 mm)
2. Sliding Door Track Height: 2 ½ inches (64 mm)
3. Vertical Jamb Dimensions: 1 ¾" inches x 1 ½" inches (45 mm x 38 mm)
4. Vertical Door Frame Dimensions: 1 ¾" inches x 1 9/16" inches (45 mm x 40 mm)

D. Double Glazed Sliding Door Frame Dimensions (if specified):

1. Overall Top Width (Top Rail + Sliding Door Track): 4 7/8" inches (124 mm)
2. Sliding Door Track Height: 2 1/2 inches (64 mm)
3. Vertical Jamb Dimensions: 2 3/8" inches x 1 1/2" inches (60 mm x 38 mm)
4. Vertical Door Frame Dimensions: 1 3/4" inches x 1 9/16" inches (45 mm x 40 mm)

E. Swing Door Frame Dimensions- single glazed (double glazed if specified):

1. Door Frame Height: 2 1/2 inches (64 mm)
2. Door Frame Depth: 2 3/8" inches (60 mm)

F. Door Sound Mitigation

1. Perimeter sound seals vertically and at top of door (standard)
2. Automatic drop seals at bottom of both sliding and swing doors (standard)

G. Door Dimensions:

1. Glass Door Dimensions (Sliding or Swing):
 - a. 3/8" (10 mm) tempered glass standard (34 STC single glazed, 49 STC double glazed)
 - b. Maximum Door Width: 44 inches (1118 mm)
 - c. Maximum height: 120 inches (including door frame) (3048 mm)
2. Wood Door Dimensions (Sliding or Swing):
 - a. 1 3/4 inches thick standard (45 mm)
 - b. Maximum door width: 41 inches (1040 mm)
 - c. Maximum height: 120 inches (including door frame) (3048 mm)

PART 3 EXECUTION

3.1 Site Preparation

- A. To maintain dimensional stability of any product, it is recommended that our systems be installed in enclosed space environments only, under temperature control and on sites with a maintained relative humidity of between 25% to 55%. Even though our products may not

be as readily affected by variances in relative humidity, adjacent products or surfaces which our product is attached to, contained or captured within may affect their performance.

- B. Before beginning the installation, ensure that the installation area is clean and free of any items that will interfere with the installation or damage product.
- C. Identify the flow of materials and determine places to store glass and hardware that is safe from damage.

3.2 Installation

- A. Install the partitioning system in adherence with the instructions and approved drawings issued by the manufacturer
- B. Partitions need to be installed straight, plumb and level.
- C. Ensure partitions elements are correctly fastened to adjacent building elements
- D. All doors to be installed level and plumb

3.3 Cleaning and Protection

- A. All packaging to be removed and discarded
- B. Always ensure finished surfaces of glass, aluminum profiles and hardware are protected from scratching and damage