

PRODUCT SPECIFICATIONS

Evoke® Demountable Partitions

August 2024

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Non-progressive, movable and reconfigureable system of unitized or pre-assembled panels, from a single manufacturer.
 - 2. Trim, Sealants, Hardware and Accessories.
- B. Products supplied but not installed under this Section: Voice/data cabling, devices, faceplates for thermostats and other devices.

1.3 DESIGN REQUIREMENTS

- 1. Acoustical Ceilings - 09 51 00
- 2. Wall Finishes - Section 09 70 00
- 3. Electrical and Lighting - Division 26
- 4. Communications - Division 27

1.4 DESIGN REQUIREMENTS

- A. Installer Qualifications: Engage an experienced installer who has successfully completed demountable partition installations similar in material, design, and extent to that indicated for this Project and is mutually accepted by the manufacturer and the customer.
- B. Performance Bond: The successful demountable manufacturer should have the ability to provide a performance bond to insure Project completion.
- C. Structural Performance: Provide demountable partitions capable of withstanding the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Load-Bearing Capacity of Panel System: One shelving unit loaded with 225 lbs. (115 lbs. inside - 110 lbs. on top) meeting the distributed functional load requirement when tested according to BIFMA X 5.6-2010, Section 8, Table 1.
 - 2. Transverse-Load Capacity of Panel System:
 - a. Interior wall panel deflections shall not exceed 1/120 of the span for flexible facing material or 1/240 of the span for brittle facing materials under a 5 psf (0.240 kN/m²) uniform transverse design load per the 2018 IBC Table 1604.3. Interior wall panel deflections for glass panel frames shall not exceed 1/175 of the span or 0.75 inches, whichever is less under a 5 psf (0.240 kN/m²) uniform transverse design load per the 2018 IBC Table 2403.3.
 - b. 2018 IBC Section 1607.15: Interior demountable partition or butt-glazed entrances/storefronts wall products that exceed 6 feet (1829 mm) in height, including their finish materials, shall have adequate strength to resist the loads which they are subjected but not less than a horizontal load of 5 psf (0.240 kN/m²).
 - c. Seismic Performance: Provide demountable partitions capable of withstanding the effects of earthquake motions determined according to ASCE 7 - Minimum Design Loads for Building and Other Structures.



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- D. Sound Control: Solid panels shall provide an overall sound transmission class of not less than 50 STC rating in accordance with ASTM E-90, ASTM E412.
- E. Electrical Components, Devices and Accessories: Listed and labeled as defined in NFPA 70, Article 110 by a testing agency acceptable authorities having jurisdiction, and marked for intended use.
- F. Indoor Air Quality: Demountable partition wall manufacturer's non-wood products must meet the SCS Indoor Advantage™ Gold Certification or equivalent. This approval guarantees conformance to indoor air concentrations meeting ANSI/BIFMA Furniture Emissions Standard (M7.1X7.1-2011 R2016), CDPH/EHLB Standard Method (CA 01350) v1.2-2017 and ANSI/BIFMA e3-2019 (Credit 7.6.1, 7.6.2, 7.6.3) conducted in an independent third-party air quality testing laboratory.
- G. Combustibility Performance: Product shall have finished and construction acceptable for use in Non-Combustible buildings, in accordance with Chapters 6 and 8 of the International Building Code, 2018 Edition.
- H. Certification: Include supporting certified laboratory testing data indicating that material meets specified test requirements.
- I. Mock up for Verification Purposes: In a location designated by the Architect, install a full scale installation incorporating at least one of each type of panel, and accessory required, illustrating each installation condition. Retain mock up installation until completion of total installation or dismantle earlier at the direct of the Architect. Materials used for the mock up installation will not be considered part of either the base contract materials or the attic stock materials. If life cycle costs of the product are an important decision criterion, the mock up installation and reconfiguration should be timed, and the reuse of components should be evaluated.

1.5 DESIGN REQUIREMENTS

- A. The extent of the demountable partition work as shown on the drawings, and as specified herein.
- B. Provide all materials, labor, and equipment to install demountable partitions. The demountable wall system shall offer maximum flexibility and reusability to accommodate frequent and quick location work without loss of materials, damage or modification to panels or to adjoining structures such as ceilings, fixed walls and floors. The factory assembled system must be unitized or pre-assembled (not stick built), non-progressive and modular, allowing the removal of individual panels from any location without disturbing adjoining units and providing interchangeability of panels and door units on the same module.
- C. The head detail is recessed.
- D. The integrated leveling system shall be permanently attached to the panel.
- E. The solid panels shall be available in a choice of finishes and substrates to include marker board steel, powder coated steel.
- F. Panels are stackable (top or bottom) to accommodate ceiling height changes and panel type changes (i.e., solid/glass or glass/solid configurations).
- G. The factory assembled demountable walls should be very flexible to accommodate the building conditions. The demountable wall should have flexible vertical adjustability. An adjustable, u-channel head system and a flush 4" cover shall allow for an adjustment of $\pm 3/8"$ adjustment at the ceiling. At the floor, a self-contained leveling glide system and a flush 4" cover shall allow for an adjustment of $\pm 1 3/8"$ for 4" base to compensate for ceiling and floor irregularities. Where the wall system meets the building core walls, columns or window mullions, a gasket, filler panel, or u-channel may be used. All products shall be able to accommodate incremental sizes to a $1/16"$ increments.

- H. Compatible modular power shall be available and can terminate within the solid wall panel. All modular power connections within solid walls cavities and base areas shall be accessible and inspectable before, during , and after installation. Owner will require open accessibility to power and data cabling disconnection and reconnection and pathways to accommodate wall disassembly and relocation. Walls shall be able to be field retrofitted to accept additional modular power outlets and conventional hardwired electrical outlets, fire and life safety, ADA strobes and devices, thermostats, and access security hardware and devices without complete wall section removal.

1.6 SUBMITTALS

- A. Product Data: Product data on physical characteristics, durability, resistance to fading, and flame spread characteristics for each type of partition and accessory.
- B. Shop Drawings: Shop drawings showing location and extent of partitions. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples:
1. Samples for Initial Selection: Samples for initial selection purposes in form of manufacturer's standard color charts showing full range of colors, textures, and patterns available for each type of material exposed to view.
 2. Samples for Verification: For each type of exposed finish required, prepared on Samples of size indicated below.
 - a. Panel Finish Face: Manufacturer's standard-size unit, but not less than 3 inches (75 mm) square.
 - b. Base Trim: 12 inches (300 mm) long Samples.
- D. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each type of demountable partition.
- E. Contract Closeout Information:
1. Warranty.
 2. Maintenance Data: For demountable partitions or butt-glazed entrances/ storefronts to include in maintenance manuals.
 - a. Recommended cleaning materials and warnings about cleaning methods that could be detrimental to finishes and performance.
 - b. Installation manual detailing methods to move reuse and adjustable demountable product.

1.7 PROJECT CONDITIONS

- A. Delivery, Storage, and Handling: Deliver materials to Project Site in original factory wrappings and containers/skids, clearly labeled with identification of manufacturer, brand name, model number and order number. Store materials in original undamaged packages and containers, inside well ventilated area protected from weather, moisture, soiling, extreme temperatures, humidity; store product according to installation manual and away from other trades.
- B. Environmental Limitations: Do not deliver or install demountable partition components until building is enclosed and finishing operations, including ceiling and floor-covering installation and painting, are complete.
- C. Field Measurements: Indicate measurements on Shop Drawings.
- D. Coordination of Work: Coordinate layout and installation of demountable partition components with other units of Work. Installation of ceilings, floor coverings, lighting fixtures, HVAC equipment, and fire-suppression systems should be completed before demountable partitions are installed.
- E. Special Requirements: Comply with instructions and recommendations of manufacture for special delivery, storage, and handling requirements.

1.8 EXTRA MATERIALS

Deliver to the Owner, not less than three percent of the Project total for each component, panel and accessory of each type, color, and finish of demountable partition system exclusive of material required to properly complete installation. Furnish accessory components and installation tools as indicated on materials with protective covering, identified with appropriate labels.

1.9 WARRANTY

Demountable system and related components to be without defects in material or workmanship for a period of ten (10) years from the date of delivery. Third party supplied products will be warranted based on their own warranty terms.

This warranty does not cover defects or damage resulting from accidents, misuse, improper relocation methods or transfer to storage.

1.10 NON-OBSOLESCENCE

Demountable system components and parts, with exception of third party supplied product are guaranteed to be compatible and available for purchase for ten years from the date of the original order.

PART 2 - PRODUCTS

2.1 DEMOUNTABLE PARTITIONS

- A. Products: Subject to compliance with requirements, provide the Basis-of-Design Product, or one of the following:
 - 1. TBD
 - 2. Other manufacturers desiring approval comply with Section 00440
- B. Basis-of-Design Product: Subject to compliance with requirements, provide KI "Evoke Wall."
- C. Solid Panels With Steel Substrate: 8.89 cm (3 1/2") thick and consisting of an aluminum extruded frame construction having a running thread on the vertical framing members, two removable panel shell assemblies each composed of one sheet of 22-gauge steel backed by hardboard, and filled with non-toxic fiberglass insulation in the panel and the base assembly. Top of panel engages the ceiling channel. Aluminum frames will have cavities on each side to accommodate cabling. Component bracketry is optional. Panels to contain integral, adjustable bottom connectors. Panel assemblies bolt together resulting in 1/16" reveal between panel shell assemblies. Panel assemblies shop from manufacturing facility assembled.
 - 1. Type: Factory finished.
 - 2. Panel Thickness: Manufacturer's standard, 3 1/2" thickness.
 - 3. Panel Width: As Indicated on drawings.
 - 4. Panel Finish: [Powder-coat finish][Steel Markerboard].
 - 5. Panel Color and Pattern: [As selected by Architect from manufacturer's full range] <Insert color and pattern>.
 - 6. Magnetic Accessory: <Insert accessories such as a picture hanger>
 - D. Panel Connector or Joint Closure:
 - 1. Bolts fasten adjacent panel framing members together. Panel to post connections are bolted.
- E. Trim: Base trim is continuous, factory-finished snap-on type or recessed; adjustable for variations in floor. Ceiling trim is continuous and compensates for ceiling irregularities.
 - 1. Base Trim Profile: [Flush]
 - 2. Flush Base Trim Height: [4"]
 - 3. Ceiling Trim Profile: [Recessed]
 - 4. Exposed-Metal Trim Finish: [Factory-applied powder-coat paint][Clear Anodized]
 - 5. Trim Color: [As selected by Architect from manufacturer's full range]

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 - 2. Flush Base Trim Height: [4"]
 - 3. Ceiling Trim Profile: [Recessed]
 - 4. Exposed-Metal Trim Finish: [Factory-applied powder-coat paint][Clear Anodized]
 - 5. Trim Color: [As selected by Architect from manufacturer's full range]
- F. Electrical and Communications: As specified in Electrical - Division 26 and Communications - Division 27. All electrical components are UL listed and approved.
- G. Solid Panel Acoustical Rating: [STC 48]
- H. Seals: Manufacturer's standard.

2.2 FABRICATION

- A. Demountable Panels: Factory-assembled, flush, hollow unit construction; with faces smooth and free of buckles, oil canning, and seams; and insulated with solidly packed, formaldehyde free insulation. Fabricate panels for installation with concealed fastening devices and pressure-fit components that will not damage ceiling or floor coverings. Fabricate panels with continuous light-and-sound seals at floor, ceiling, and other locations where panels abut fixed construction.
- B. Components: Fabricate components for installation with concealed fastening devices and pressure-fit members that will not damage ceiling or floor coverings. Fabricate for installation with continuous seals at floor, ceiling, and other locations where partition assemblies abut fixed construction and for installation of sound attenuation insulation in partition cavities.

2.3 FINISHES, GENERAL

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prior to installation of demountable partition system, clean floor to remove dust, debris, and loose particles.
- B. Illuminate areas of installation to provide an ambient light level of at least 100 foot candles measured in the area where partitions are to be installed.
- C. Maintain temperature in the area of installation at a constant minimum of 65 degrees F with relative humidity less than 70 percent for a period of 48 hours prior to installation and during installation process.
- D. General Contractor will deliver all GWB construction interfacing with the demountable partition system in true and plumb condition.

- E. For manufacturer to accept responsibility of dimensional compatibility between demountable partition wall system and GWB construction, manufacturer shall have access to the completed GWB for accurate field measuring eight weeks prior to requiring product on site to commence installation. If time line does not permit the eight weeks lead time, demountable manufacturer shall provide "hold-to" dimensions for the General Contractor. General Contractor then assumes responsibility that GWB construction delivers on "hold-to" dimensions.
- F. Demountable manufacturer determines that conditions are acceptable to receive the work of this section. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to installer. Starting of work shall be construed as acceptable of conditions.

3.2 INSTALLATION

- A. Install demountable partition systems rigid, level, plumb, and aligned. Install seals to prevent light and sound transmission at connections to floors, ceilings, fixed walls, and abutting surfaces.
 - 1. Installation Tolerance: Install each partitions so surfaces vary not more than $\frac{1}{8}$ inch (3 mm) from the plane formed by the faces of adjacent partitions.
- B. Do not alter ceiling suspension system.

3.3 DEMONSTRATION

- A. Engage a factory-authorized service representative to demonstrate and train Owner's maintenance personnel to adjust, operate, and maintain demountable partitions. Refer to Division 01 Section "Demonstration and Training."

