Acousti-Clear Automatic Seal – Single Panel
10 22 26 (10650)
Operable Partitions

SPECIFICATION - SECTION 10 22 26 (10650) OPERABLE PARTITIONS

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.

1.2 SUMMARY
A. Section Includes:
1. Manually operated and manually activated, individual panel operable partitions with glass panels.
B. Related Sections include the following:
1. Division 03 Sections for concrete tolerances required.
2. Division 05 Sections for primary structural support, including pre-punching of support members by structural steel supplier per operable partition supplier's template.
3. Division 06 Sections for wood framing and supports, and all blocking at head and jambs as required.
4. Division 09 Sections for wall and ceiling framing at head and jambs.

1.3 QUALITY ASSURANCE
A. Installer Qualifications: An experienced installer who is certified in writing by the operable partition manufacturer, as qualified to install the manufacturer's partition systems for work similar in material, design, and extent to that indicated for this Project.
B. Acoustical Performance: Test operable partitions in an independent acoustical laboratory in accordance with ASTM E90 test procedure to attain no less than the STC rating specified. Provide a complete and unedited written test report upon request.
C. Preparation of the opening shall conform to the criteria set forth per ASTM E557 *Standard Practice for Architectural Application and Installation of Operable Partitions*.
D. Do not begin installation until permanent HVAC systems are properly operating and building and temperature and humidity have stabilized.
E. Reference Standards
1. ADA – Americans with Disabilities Act.
2. ANSI Z97.1 - Safety Glazing Materials Used in Buildings.
3. ASTM C1036 - Standard Specification for Flat Glass.
4. ASTM C1048 - Heat-Treated Flat Glass—Kind HS, Kind FT Coated and Uncoated Glass.
5. ASTM E84 - Surface Burning Characteristics of Building Materials.
6. ASTM E413 - Classification for Rating Sound Insulation
7. CPSC 16 CFR 1201 - Safety Standard for Architectural Glazing Materials.
8. NEMA LD3 - High Pressure Decorative Laminates.

1.4 SUBMITTALS

A. Product Data: Material descriptions, construction details, finishes, installation details, and operating instructions for each type of operable partition, component, and accessory specified.
B. Shop Drawings: Show location and extent of operable partitions. Include plans, elevations, sections, details, attachments to other construction, and accessories. Indicate dimensions, weights, conditions at openings, and at storage areas, and required installation, storage, and operating clearances. Indicate location and installation requirements for hardware and track, including floor tolerances required and direction of travel. Indicate blocking to be provided by others.
C. Setting Drawings: Show imbedded items and cutouts required in other work, including support beam punching template.
D. Samples: Color samples demonstrating full range of finishes available by architect. Verification samples will be available in same thickness and material indicated for the work.
E. Reports: Provide a complete and unedited written sound test report indicating glass thickness and spacing in test specimen matches product as submitted.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Clearly mark packages and panels with numbering systems used on Shop Drawings. Do not use permanent markings on panels.
B. Protect panels during delivery, storage, and handling to comply with manufacturer's direction and as required to prevent damage.

1.6 WARRANTY
A. Provide written warranty by manufacturer of operable partitions agreeing to repair or replace any components with manufacturing defects.
B. Warranty period: Two (2) years.

PART 2 – PRODUCTS

2.1 MANUFACTURERS, PRODUCTS, AND OPERATION
A. Manufacturers: Subject to compliance with requirements, provide product by the following:
1. Modernfold, Inc.
B. Products: Subject to compliance with requirements, provide the following product:
1. Acousti-Clear Automatic Seal – Single Panel - Manually operated and manually activated individual panel operable partition.

2.2 OPERATION
A. Acousti-Clear Automatic Seal – Single Panel: Series of individual flat panels, manually operated and manually activated, top supported with automatic top and bottom seals.
B. Final Closure (select one):
1. Horizontally expanding panel edge with removable crank.
2. Pivot panel
a. Hardware – Satin Stainless Steel Finish (select one):
1. Non-locking Lever (Handle mounted in vertical rail not acceptable)
2. Locking Lever (Handle mounted in vertical rail not acceptable)

3. Non-locking Rail Handle
4. Locking Rail Handle

2.3 PANEL CONSTRUCTION

A. Glass Panels

1. Type: Acousti-Clear Automatic Seal – Glass Panel.
2. Nominal 4-inch (100 mm) thick panels in manufacturer's standard 48-inch (1220 mm) widths. All panel horizontal and vertical framing members shall be fabricated from aluminum extrusions and mechanically fastened. Frame shall be designed to minimize exposure on face of panels.
3. Panel Faces:
    a. 5/16-inch (8 mm) clear glass on one face, mechanically fastened and sealed in frame.
    b. 3/8-inch (9.5 mm) clear glass on one face, mechanically fastened and sealed in frame.
    c. Glass Type: Tempered, complying with ASTM C1036, ASTM C1048, CPSC 16 CFR 1201 Categories 1 & 2, and ANSI Z97.1.
4. Glass Finish (select one):
    a. Clear tempered
    b. Low-iron tempered
    c. Frosted tempered
5. Panel Trim: Pre-finished aluminum to protect edge of glass in one of the following finishes (select one):
    a. Clear Anodized
    b. Satin Stainless Anodized
    c. White Powder Coat (RAL 9016)
    d. RAL "Classic" Powder Coat available
6. Sound Transmission Class: 45 minimum STC when tested in accordance with ASTM E90 and classified in accordance with ASTM E413.

B. Solid (Non-Glass) Panels:

1. Type: Acousti-Clear Automatic Seal – Solid Panel.
2. Nominal 4-inch (100 mm) thick panels in manufacturer's standard 48-inch (1220 mm) widths. All panel horizontal and vertical framing members shall be fabricated from aluminum extrusions and mechanically fastened. Frame shall be designed to minimize exposure on face of panels.
3. Panel Faces: 3/8-inch (9.5 mm) thick medium density fiberboard, mechanically fastened and sealed in frame.
4. Panel Finishes:
    a. High pressure plastic laminate on MDF board.
    b. Wood veneer on MDF board.
    c. Full height steel or laminate markerboard.
5. Panel Trim: Pre-finished aluminum to protect edge of panel in one of the following finishes (select one):
    a. Clear Anodized
    b. Satin Stainless Anodized
    c. White Powder Coat (RAL 9016)
    d. RAL "Classic" Powder Coat available

6. Sound Transmission Class: 50 minimum STC when tested in accordance with ASTM E90 and classified in accordance with ASTM E413.

2.4 SOUND SEALS

A. Vertical Interlocking Sound Seals between panels: Extruded aluminum astragals with interlocking convex/concave resilient quad-lip gaskets. Rigid plastic astragals or astragals with gaskets on only one panel edge are not acceptable.

B. Horizontal Top and Bottom Seals shall be automatic operable seals providing 7/8-inch (22 mm) operating clearance with an operating range of +3/8-inch (9.5 mm) to -3/8-inch (9.5 mm). Seals shall operate automatically without tools or cranks and shall extend as panels are positioned. Fixed (non-operating) seals at top or bottom of panels are not acceptable.

2.5 SUSPENSION SYSTEM (SELECT ONE)

A. G-150 Suspension System

1. Suspension Tracks: Extruded aluminum with a minimum wall thickness of 0.235-inches (6 mm). Incorporate cast aluminum or mitered intersections, switches, and curves in stacking area. Provide alignment pins for track, intersections, and switches and curves insuring both fit and roller surface integrity.
    a. Exposed track soffit: Factory-finished aluminum with white powder coat.
2. Carriers:
    a. Smart Track™ - Two stainless steel trolleys with vinyl roller surfaces (except Pivot Panel). Trolley design incorporates eight (8) wheels of varying dimensions. Automatic indexing of panels into stack area is provided by pre-programmed switches and trolleys without electrical, pneumatic, or mechanical activation.
    b. Right Angle Turn - Two stainless steel trolleys with vinyl roller surfaces. Trolley design incorporates eight (8) wheels of varying dimensions that permit panels to traverse L, T, and X intersections without mechanical switching, on all panels (except Pivot Panel).

-OR-

B. #17G Suspension System - Smart Track™

1. Suspension Tracks: Minimum 11 gauge, 0.12-inch (3 mm) roll-formed steel track suitable for either direct mounting to a wood header or supported by adjustable steel hanger brackets supporting the load-bearing surface of the track, connected to structural support by pairs of 3/8-inch (9.5 mm) diameter threaded steel rods.
    a. Exposed track soffit: Steel, integral to track, and pre-painted off-white.
2. Carriers: Two all-steel trolleys with steel ball-bearing wheels and vinyl tires (except Pivot Panel). Automatic indexing of panels into stack area is provided by pre-programmed switches and trolleys without electrical, pneumatic, or mechanical activation.

2.6 OPTIONS

A. Pass Doors (Glass Panel):

1. Single Pass Doors:

a. Matching pass door same thickness and appearance as the panels. ADA-compliant pass door equipped with non-locking lever latch. No threshold will be permitted. Pass doors hinged or attached to adjacent panels are not permitted.

2. Hardware (choose as required):
   a. Locking lever latch.
   b. Self-Illuminated exit signs.

B. Available Accessories/Options:

1. Horizontal mullions
   a. Prefinished aluminum to match trim finish.
   b. Same appearance and thickness as panel frame/trim.
   c. Plastic mullions are not acceptable.
   d. Mullions attached directly to the glass or panel face are not acceptable.
2. Pocket Doors: Acousti-Seal Pocket Doors by Modernfold, Inc.
3. Intersecting partition interface (select one):
   a. “L” Post
   b. “T” Post
   c. “X” Post

PART 3 – EXECUTION

3.1 INSTALLATION

A. General: Comply with ASTM E557, operable partition manufacturer’s written installation instructions, Drawings and approved Shop Drawings.

B. Install operable partitions and accessories after other finishing operations, including painting have been completed.

C. Match operable partitions by installing panels from marked packages in numbered sequence indicated on Shop Drawings.

D. Broken, cracked, chipped, deformed or unmatched panels are not acceptable.

3.2 ADJUSTING

A. Adjust operable partitions to operate smoothly, easily, and quietly, free from binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruption, or malfunction, throughout entire operational range. Lubricate hardware and other moving parts.

3.3 EXAMINATION

A. Examine flooring, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable partitions. Proceed with installation only after unsatisfactory conditions have been corrected.

3.4 DEMONSTRATION

A. Demonstrate proper operation and maintenance procedures to Owner’s representative.

B. Provide Operation and Maintenance Manual to Owner’s representative.

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