

**PART - 1 GENERAL**

**1.1 SUMMARY**

- .1 Section Includes:
  - .1 Labour, Products, equipment and services necessary to complete the work of this Section including but not limited to the following:
    - .1 Manually operated, continuously hinged folding sliding glass partitions.
  - .2 Related Sections include the following:
    - .1 Division 05 Sections for primary structural support, including pre-punching of support members by structural steel supplier per glass operable partition supplier's template.
    - .2 Division 06 Sections for wood framing and supports and all blocking at head and jambs as required.
    - .3 Division 09 Sections for wall and ceiling framing at head and jambs.

**1.2 REFERENCE STANDARDS**

- .1 ASTM International
  - .1 ASTM E557 Standard Practice for Architectural Application and Installation of Operable Partitions.
  - .2 ASTM C1036 - Standard Specification for Flat Glass.
  - .3 ASTM C1048 - Heat-Treated Flat Glass—Kind HS, Kind FT Coated and Uncoated Glass.
  - .4 ASTM E84 - Surface Burning Characteristics of Building Materials.

**1.3 SUBMITTALS**

- .1 Product Data: Material descriptions, construction details, finishes, installation details, and operating instructions for each type of operable glass panel partition, component, and accessory specified.
- .2 Shop Drawings: Show location and extent of operable glass panel 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.
- .3 Setting Drawings: Show imbedded items and cutouts required in other work, including support beam punching template.
- .4 Samples: Color samples demonstrating full range of finishes available for selection by Consultant. Verification samples will be available in same thickness and material indicated for the work.
- .5 Reports: Provide a complete and unedited written sound test report indicating test specimen matches product as submitted.

**1.4 QUALITY ASSURANCE**

- .1 Installer Qualifications: An experienced installer who is certified in writing by the glass 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.

- .2 Preparation of the opening shall conform to the criteria set forth per ASTM E557 “Standard Practice for Architectural Application and Installation of Operable Partitions.”
- .3 The movable glass wall must be manufactured by a certified ISO-9001 company or an equivalent quality control system.

1.5 **DELIVERY, STORAGE, AND HANDLING**

- .1 Clearly mark packages and panels with numbering systems used on Shop Drawings. Do not use permanent markings on panels.
- .2 Protect panel and glazing materials during delivery, storage, and handling to comply with manufacturer’s direction and as required to prevent damage to the glass and hardware.

1.6 **WARRANTY**

- .1 Manufacturer’s Special Project Warranty on Glass Panels: Provide written warranty signed by the manufacturer of glass operable partitions agreeing to replace those panels with manufacturing defects.
  - .1 Manufacturing defects are defined as any defect materially obstructing vision through the glass, and mechanical failure of hardware which prevents the proper operation of the panels after appropriate installation.

**PART - 2 PRODUCTS**

2.1 **MANUFACTURERS**

- .1 Basis of Design System: Modernfold Acousti-Clear by Modernfold Inc.

2.2 **SYSTEM DESCRIPTION**

- .1 Operable Partition consisting of a series of continuously hinged folding glass panels, manually operated and top-supported with pivot door panel. Panels use two-piece, clamp-on top and bottom rails that fasten together from alternating sides.

2.3 **CONSTRUCTION**

- .1 Provide top reinforcement as required to support panel from suspension components and provide reinforcement for hardware attachment. Fabricate panels with concealed fasteners. Finished in-place partition shall be rigid, level, plumb, aligned with uniform joints and appearance, free of bow, warp, twist, deformation, and surface and finish irregularities.
- .2 Dimensions: Fabricate operable glass panel partitions with manufacturer’s standard panel sizes to form an assembled system of dimensions indicated on Drawings and verified by field measurements.
  - .1 Maximum panel width: 39-inches (991 mm)
  - .2 Standard rail thickness: 1-9/16-inches (40 mm)
- .3 Top and Bottom Rails: Continuous two-piece assemblies with removable end caps. Rails fasten together from alternate sides of partition allowing for field adjustment to job site conditions. Snap-on covers are furnished to facilitate installation.
- .4 Horizontal Top and Bottom Seals: Continuous contact vinyl seals without the need for mechanically operated parts.
- .5 Bottom Rail Locking System: Engage floor by use of thumb turn operated floor bolts to stabilize panels from movement in all directions.
  - .1 Equip lead panel with mortised cylinder with key and thumb turn operated floor bolt. Round bolt engages eccentric bushing floor strike for security.
  - .2 Intermediate panels to have a thumb turn operated floor bolt.

- .3 Pivot panels to have mortised cylinder with key and thumb turn.
- .6 Hinges for panels shall be:
  - .1 Butt hinges attached to top and bottom rail
- .7 Acoustical ratings of panels: Sound Transmission Class of minimum 15 STC when tested in accordance with ASTM E90 and classified in accordance with ASTM E413.

## 2.4 MATERIALS

- .1 Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use, corrosion resistance, and finish indicated; ASTM B221 (ASTM B221M) for extrusions; manufacturer's standard strengths and thicknesses for type of use.
  - .1 Finish: Clear anodized
- .2 Glass: Refer to Section 08 80 00, Glazing for glass requirements.

## 2.5 SUSPENSION SYSTEM

- .1 G-330 Suspension System "Smart Track"
  - .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, switches and curves insuring both fit and roller surface integrity.
    - .1 Exposed track soffit: Factory-finished aluminum with white powder coat.
  - .2 Carriers: Two stainless steel trolleys with vinyl roller surfaces. 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.
  - .3 Warranty period: Two (2) years.

## PART - 3 EXECUTION

### 3.1 INSTALLATION

- .1 General: Comply with ASTM E557, operable glass partition manufacturer's written installation instructions, Drawings, and approved Shop Drawings.
- .2 Install operable glass partitions and accessories after other finishing operations, including painting, have been completed.
- .3 Match operable glass partitions by installing panels from marked packages in numbered sequence indicated on Shop Drawings.
- .4 Broken, cracked, chipped, deformed, or unmatched panels are not acceptable.

### 3.2 CLEANING AND PROTECTION

- .1 Clean metal and glass surfaces upon completing installation of operable glass partitions to remove dust, loose fibers, fingerprints, adhesives, and other foreign materials according to manufacturer's written instructions.
- .2 Provide final protection and maintain conditions in a manner acceptable to manufacturer and Installer that ensure operable glass partitions are without damage or deterioration at time of Substantial Completion.

3.3 **ADJUSTING**

- .1 Adjust operable glass partition 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.

3.4 **EXAMINATION**

- .1 Examine flooring, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable glass partitions. Proceed with installation only after unsatisfactory conditions have been corrected.
  - .1 Ensure finished floor under operable glass partition is level  $\pm$  0.13-inch (3 mm) in ten (10) feet (3048 mm) non-cumulative.

3.5 **DEMONSTRATION**

- .1 Demonstrate proper operation and maintenance procedures to Owner's representative.
- .2 Provide Operation and Maintenance Manual to Owner's representative.

END OF SECTION