

PART 1: GENERAL

1.01 RELATED DOCUMENTS:

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY:

- A. This section shall include the furnishing of all tools, equipment, and labor necessary for the following systems:
 - 1. Manually operated, accordion folding partition - Classroom Subdividing.
- B. Manufacturer shall furnish operable walls complete with hardware, tracks, hanger rods, stack jamb, soffits, soffit guide rails and all necessary mechanisms to provide complete operation.

1.03 WORK BY OTHERS:

- A. All supporting structures and members at head and jambs; track enclosures including sound insulation, sound baffles, trim and finishing of same.
- B. Any preparing of and/or punching of the support structures.
- C. Preparation of the opening shall be by the General Contractor. Any changes to the project site conditions, contrary to the reviewed shop drawings, shall be brought to the attention of the Architect.

1.04 SYSTEM PERFORMANCE REQUIREMENTS:

- A. Acoustical Performance: Operable panel systems shall have been tested by a qualified independent testing agency in a full scale opening (14 feet by 9 feet) for laboratory sound transmission loss performance according to ASTM E90-81, determined by ASTM E413 and shall be rated:
 - 1. Classroom Dividing Accordion Folding Partition – not less than FSTC 41
- B. Field sound performance shall have been tested on an actual field installation by an independent certified acoustical consultant in accordance with ASTM E336 and shall have achieved no less than a .70 NRC. A written test report by the acoustical consultant shall be furnished to the Architect upon request.

1.05 SUBMITTALS:

- A. General: Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.

Product Data on physical characteristics, durability and surface burning characteristics for each type of operable panel partitions system specified.

Shop Drawings showing location and extent of all operable panel partitions systems. Include plans, elevations, method of attachment to building structure, conditions at openings with wall thickness and materials, typical and special details of construction, location and installation requirements for hardware and operators, and all accessory items.

Template drawings prepared by the operable partition manufacturer showing location of items supported by or anchored into the building structure and wherever attachment occurs.

- B. Samples for initial selection purposes in the form of manufacturers color charts showing a full range of colors, textures and patterns available for each type of panel finish indicated on the shop drawings.
- C. Acoustical test report certificates indicating that the operable panel partition systems have been tested by an independent acoustical testing agency and comply with the specified minimum STC ratings.

1.06 QUALITY ASSURANCE:

- A. Installer Qualifications: Engage an experienced Installer who is certified in writing by the operable panel partition manufacturer as qualified to install the manufacturer's partition systems specified herein.
- B. Surface Burning Characteristics: Provide panel finish faced with the following surface burning characteristics as determined by testing identical products per ASTM E84 by UL or other testing and inspecting agencies acceptable to authorities having jurisdiction.

Flame Spread: 25 or less

Smoke Developed: 450 or less

1.07 DELIVERY, STORAGE, AND HANDLING:

- A. Deliver materials to project site in original factory wrappings and containers.
- B. Store panels on edge, blocked off ground to prevent sagging and warping, in original undamaged packages. Store panels in an enclosed, climatized environment. Panels shall be protected from weather, moisture, soiling, extreme temperatures and humidity.
- C. Comply with instructions and recommendations of manufacturer for special delivery, storage, and handling requirements.

1:08 WARRANTY:

Partitions and suspension system shall be guaranteed against defects in materials and workmanship for one year.

PART 2: PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS:

The operable acoustical folding partition systems specified herein are based on product as manufactured by Woodfold, Inc. Subject to complete and total compliance with this specification, the following manufacturers are also acceptable:

- A. Accordion Folding Partitions (at Rooms and Classrooms being subdivided, as indicated on Drawings):
 1. Woodfold Series 4166 with dual 6" panels, manually operated, FSTC 41, NRC .70

2. Hufcor equivalent or better products
3. Modernfold equivalent or better products
4. Kwik-Wall equivalent or better products

2.02: ACOUSTICAL ACCORDIAN FOLDING PARTITION SYSTEMS:

ACOUSTICAL ACCORDION folding partitions shall be manually operated Model 4166 FSTC 41, NRC .70, as manufactured by Woodfold, Inc., Forest Grove, Oregon USA and installed by an authorized representative in openings prepared by others to Model 4166 requirements.

2.03 TWIN ROW PARTITION PANELS:

6-inch wide, ½-inch thick, heavy-duty, high-density twin row partitions with acoustical liners, shall be bolted to 16 gauge steel panel support brackets and suspended from the steel yoke hinged at the brackets. Multi-fingered perimeter extruded vinyl seals shall be installed top and bottom both sides of the partition and shall be field adjustable.

2.04 END POSTS:

End posts shall have deep nesting aluminum nose with dual vertical sound seals and shall be equipped with Architectural grade grip pulls, latches and aluminum jamb moulds in natural anodized finish.

2.05 TRACK AND HANGERS:

Track shall be heavy-duty extruded aluminum. Four ball-bearing wheels shall be installed on each volute and a minimum of six shall be installed on each end post.

2.06 PANEL SURFACES:

Panels shall be specially laminated engineered wood core, bonded with decorative vinyl laminate, scratch-resistant and anti-microbial, color as selected from manufacturer's full range of available colors.

2.07 CONNECTOR HINGES:

Panels shall be hinged and edge sealed to reduce sound, light and air transmission with heavy duty dual-wall, flame-resistant, extruded vinyl. Hinges shall be securely locked into and protect the panel edges. They shall provide "Memory-Action®" causing panels to extend and stack equally, smoothly and quietly. Colors from manufacturer's selector.

2.08 TRIM: Ceiling guard head closure trim shall be supplied.

2.09 HARDWARE: Manufacture's standard non-security latching hardware.

2.10 FIRE RETARDANCY:

STC 45 model panels shall be made up of fire retardant cores, ASTM E84-70 laboratory tunnel tested with 20 flame spread, 15 fuel contributed, 15 smoke developed.

2.11 CURVED TRACK, SWITCHES AND MULTIPLE MEETING POSTS:

Furnish to effect room division as detailed on the plans. Minimum radius 3'0" (914mm).

2.12 HANGING WEIGHT: STC 45, 6.7 lbs/ft².

PART 3: EXECUTION

3.01 EXAMINATION:

- A. Examine flooring, structural support, and opening for compliance with requirements for installation tolerances and other conditions affecting performance of operable partition walls. Surfaces shall be clean and dry. Concrete surfaces shall be free of excess mortar and lumps. Wood surfaces shall be well nailed and/or glued, nail head driven flush, and wood free of voids. Metal surfaces shall be free of grease, oil, dirt, rust, corrosion and welding slag, without sharp edges. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Verify that rough opening is correct and has been prepared by others to conform to ASTM E557-75 Standard.

3.02 INSTALLATION:

- A. Install accordion panel partitions and accessories complying with ASTM E557 after other finishing operations, including painting, have been completed. Install accordion panel partitions that conform to Architectural Drawings & Specifications, approved shop drawings and in strict compliance with manufacturer's written installation instructions.
- B. Match accordion partitions for color and pattern by installing partitions from cartons in the same sequence as manufactured and packaged if so numbered. Broken, cracked, chipped or deformed panels are not acceptable.
- C. Apply perimeter caulking and trim and required.

3.03 ADJUSTING:

- A. Lubricate all system components, bearings and sliding parts, adjust to ensure smooth easy operation.
- B. Adjust locking hardware for accurate fit.

3.04 CLEANING

- A. Clean all wood, metal, vinyl, and plastic laminate surfaces to remove soil without using abrasive cleaners or solutions containing corrosive solvents.
- B. Remove debris from worksite.

3.05 DEMONSTRATION:

- A. Provide the services of factory-authorized service representative to demonstrate and train Owner's representatives. Test operation and safeties. Replace damaged equipment. Train Owner's representative on procedures and schedules related to operation, troubleshooting, servicing and preventative maintenance.
- B. Deliver all operation and maintenance manuals to the owner.

END OF SECTION