

**SECTION 10 22 26
OPERABLE PARTITIONS**

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division-1 specification section, apply to work of this section

1.2 SECTION INCLUDES

- A. Folding panel, non-combustible, and acoustic partition (fire-rated as required)
- B. Ceiling track, ceiling guards and operating hardware
- C. Work surfaces and doors as indicated
- D. Manual operation

1.3 REFERENCES

- A. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials
- B. ASTM E90 – Standard Test Method for Laboratory of Airborne Sound Transmission Loss of Building Partitions and Easements
- C. ASTM E413 - Classification for Rating Sound Insulation
- D. ASTM E557 – Standard Guide for Architectural Design and Installation Practices for Sound Isolation between Spaces Separated by Operable Partitions
- E. ASTM E596 – Standard Test Method for Laboratory Measurement of Noise Reduction of Sound-Isolating Enclosures
- F. NEMA LD-3 - High Pressure Decorative Laminates.
- G. UL - Underwriters Laboratories Inc, Fire Resistance Directory
- H. FBC - Florida Building Code
- I. FFPC - Florida Fire Prevention Code

1.4 PERFORMANCE REQUIREMENTS

- A. Fire Rated Partition Assembly, UL assembly for any required hourly rating.
- B. Noise Reduction Coefficient (NRC) to ASTM E596 standards, with a minimum NRC rating of 0.65
- C. Sound Transmission Coefficient (STC): 53-55 measured in accordance with ASTM E413, tested on panel size of 100 sq ft.
- D. Surface Burning of Carpet Finish: ASTM E84; flame and smoke developed indexes of 25/50.
- E. Install partition system track capable of supporting imposed loads, with maximum deflection of 1/360 of span.
- F. Operation: Side opening; paired continuous hinged panels; side stacking.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Shop Drawings:
 - 1. Indicate opening sizes, track layout, details of track and required supports, static and dynamic loads, location, and details of pass door and frame, adjacent construction and finish trim and stacking sizes.
 - 2. Provide structural calculations for support structure by Florida structural engineer.
- C. Product Data: Provide data on partition operation, hardware and accessories, track-switching components, colors and finishes available.
- D. Samples: Submit samples of full manufacturer's color range for selection of colors.
- E. Samples: Submit samples of surface finish, 12 x 12 inches, size, illustrating quality, colors selected, texture, and weight.

The School District of Palm Beach County

Project Name

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- F. Manufacturer's Installation Instructions: Include specific procedures, perimeter conditions requiring special attention and installation sequence.
- G. Manufacturer's Certificate: Certify that partition system meets or exceeds specified acoustic requirements and flame/smoke rating.

1.6 MAINTENANCE DATA

- A. Submit under provisions of Section 01 77 00.
- B. Include recommended cleaning methods, cleaning materials, and stain removal methods.
- C. Describe cleaning materials detrimental to marker board and tack board surfaces and hardware finish.

1.7 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum 5-years documented experience.
- B. Installer: Company specializing in performing the work of this section with minimum 5-years documented experience and approved by manufacturer.

1.8 REGULATORY REQUIREMENTS

- A. Conform to applicable code for fire rated panel construction, surface burning characteristics, and combustibility requirements for materials.

1.9 FIELD MEASUREMENTS

- A. Verify that field measurements are as indicated on approved shop drawings.

1.10 COORDINATION

- A. Coordinate work under provisions of Section 01 31 00.
- B. Coordinate work with other sections providing panel finish materials to this section.

PART 2 PRODUCTS

2.1 COMPONENTS

- A. Panel Construction:
 - 1. Provide a core of gypsum board construction utilizing manufacturer's standard fabrication methods.
 - 2. Panel-to-Panel seals with a grooved and gasket astragals, continuous flexible ribbed vinyl seal fitted to panel edge construction; color to match panel finish.
- B. Track: Formed steel; thickness and profile designed to support loads; steel sub-channel and track connectors.
- C. Carriers: Nylon wheels on trolley carriers at top of panel, sized to carry imposed loads, with threaded pendant bolt for vertical adjustment.
- D. Hardware: Latching door handles of cast steel, satin chrome finish; lock cylinder master keyed to building keying system.
- E. Acoustic Seals: Provide flexible acoustic seals at jambs, meeting mullions, ceilings, retractable floor and ceiling seals, and above track to structure acoustical seal.
- F. Accessories: White enamel ceiling closure, aluminum jamb and head molding, fittings and attachments.
- G. Pass Door: Single door, 36" wide x 72" high opening; same design and construction as panel; fit door with perimeter acoustic gaskets, keyed lock, and tool operated floor seal.
 - 1. Provide egress function, level handle lockset.
- H. Acoustic Sealant: Provide the manufacturer's standard.

2.2 PANEL FINISHES

- A. Standard: Vinyl, fabric or acoustical wall covering.

- B. Marker Boards see section 10 11 00.
- C. Tack Boards see section 10 11 00.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify attachment substrate and site conditions under provisions of Section 01 31 00.
 - 1. Verifying supporting structure is sufficient for the partition weight and dynamic loads.
- B. Verify lateral bracing on track supports will permit track to be level within 1/4" of required position and parallel to the floor surface.
- C. Verify floor flatness of 1/8" in 10', non-cumulative.
- D. Verify wall plumb of 1/8" in 10', non-cumulative.

3.2 PREPARATION

- A. Verify that required utilities are available, of the correct characteristics, in proper location, and ready for use.

3.3 INSTALLATION

- A. Install partition in accordance with manufacturer's instructions.
- B. Fit and align partition assembly and pocket doors level and plumb.
- C. Lubricate moving components.
- D. Apply acoustic sealant to achieve required acoustic performance.

3.4 ADJUSTING

- A. Adjust work under provisions of Section 01 75 00.
- B. Adjust partition assembly to provide smooth operation from stacked to full open position.
 - 1. Do not over-compress acoustic seals.
- C. Visually inspect partition in full-extended position for light leaks to identify a potential acoustic leak.
- D. Adjust to achieve light, tight seal.
- E. Adjust doors in panels for smooth operation.

3.5 CLEANING

- A. Clean work under provisions of Section 01 77 00.
- B. Clean finish surfaces and partition accessories.
- C. Break in marker board surfaces in accordance with manufacturer's instructions.

3.6 DEMONSTRATION

- A. Provide systems demonstration under provisions of Section 01 75 00.
- B. Demonstrate operation of partitions identify potential operational problems.

END OF SECTION