

08350 ACCORDION FOLDING DOORS

SPECIFIER:

CSI MasterFormat 2004 number 08 35 13

PART 1 GENERAL

1.1 SUMMARY

A. Related Sections:

1. 04221 - Concrete Unit Masonry.
2. 05500 - Metal Fabrications.
3. 06100 - Carpentry.
4. 09200 - Metal Studs, Lath, Suspension Ceiling, Plaster, and Stucco.
5. 09900 - Painting.

1.2 REFERENCES

A. American Society for Testing and Materials (ASTM), latest edition:

1. E84 Test Method for surface Burning Characteristics of Building Materials.
2. E90 Test Method for Laboratory measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
3. E557 Practice for Architectural Application and Installation of Operable Partitions.

1.3 SUBMITTALS

- A. Submit properly identified manufacturer's literature and technical data including catalog cuts, materials specifications, and other data as may be required before starting work.
- B. Shop Drawings: Submit shop drawings for review, showing details of construction, methods of installation, head track installation, bracing details, materials, fastenings, finishes, and other required details.
- C. Samples: Submit samples of track, hanger assemblies, and wood core with wood grain embossed vinyl film finish or laminated covers.

1.4 QUALITY ASSURANCE

- A. Manufacturer: Provide each folding door and partition assembly as complete unit by 1 manufacturer including necessary hardware, fittings, accessories, and anchorages.
- B. Special Requirements:
 1. Sound Transmission Class (STC): Provide folding partition units capable of achieving STC ratings as specified when tested according to ANSI/ASTM E90.
 2. Flame Spread Rating: Use only facing materials that have maximum 25 flame spread rating when tested to ANSI/ASTM E84.

1.5 WARRANTY

A. Pre-Installation Guarantee:

1. Repair or replace with identical door delivered to project site.
2. Replacement: Identical door shall be of the same type, model number, finishing, and installation requirements as originally supplied by manufacturer.
3. Store and handle doors during pre-installation to not void manufacturer's guarantee.

B. Post-Installation Guarantee: Remove and rehang doors, accessories or assemblies that become defective after installation.

C. Guarantee Period: 3 years against defects in material or installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Accordion Folding Doors at Student Occupied Spaces (STC 48 minimum):

1. Sonicwal 1212 by Panelfold, Miami, FL.
2. DuraSound by Won Door, Salt Lake City, UT.

B. Accordion Folding Doors at Administrative Areas (STC 40):

1. Model 213 by Kwik Wall, Springfield, IL.
2. Soundmaster 12 by Modernfold, New Castle, IN.
3. Series 4000 by Hufcor, Janesville, WI.
4. Fabricwal by Panelfold, Miami, FL.
5. Series 4000 by Moderco, Kansas City, KS.

2.2 FABRICATION

A. Steel, accordion-type partition system, suspended from track at head without floor track or guides.

1. Furnish partition system assembled complete with head and jamb mold to conceal track and provide jamb closure.

B. Track and Hangers:

1. Track: 1 inch x 1 inch, minimum 20 gage steel with corrosion resistant coating, or heavy-duty extruded aluminum.
2. Hanger Assemblies and Bearings: Nylon construction or ball bearing wheels.
 - a. Install hangers on alternate panels.

C. Panels at Student Occupied Spaces:

1. Panels shall consist of vinyl-clad cold rolled steel panels connected by full length hinges.

2. Color and Pattern of Vinyl Facing and Hinges: As selected by A/E from manufacturer's standard selection.
 3. Panels shall be hinged and edge sealed.
- D. Laminated Covers at Administrative Areas:
1. Laminated impact resistant vinyl covers attached to galvanized pantographs.
 2. Color and Pattern of Vinyl: As selected by A/E from manufacturer's standard selection.
- E. Perimeter seals shall consist of 2 sets of 3-ply sweep strips provided at top and bottom of the partition. Lead post shall seal into foam lined extruded aluminum molding on the jamb of the opening or on the meeting lead post of a pair of partitions. Back post shall be secured and sound sealed against a 16-gage steel jamb channel with foam sealing strip. Back post shall contain concealed jamb lock mechanism for securing to the jamb channel.
- F. Hardware:
1. Plate metal parts with suitable corrosion-resistant coating.
 2. Spring Hinges: 0.024" hard-drawn, high-carbon spring wire, galvanized before drawing, and shall be 5/32" in diameter.
 3. Furnish doors complete with necessary installation hardware including double end posts.
- G. Operation: Assembly shall be manual under 12'-0" in length and electric over 12'-1" in length.

PART 3 EXECUTION

3.1 INSPECTION

- A. Do not proceed with the work of this section until conditions detrimental to the proper and timely completion of the work have been corrected in an acceptable manner.

3.2 INSTALLATION

- A. Install folding door by manufacturer's authorized installer according to accepted shop drawings and adjust for smooth operation.
- B. Drill and tap as necessary and securely anchor track and accessories in accurate location.
- C. Install track in lengths as long as practicable, with flush, hairline joints.
- D. Adjust units as necessary to assure smooth, quiet operation without warping or binding.
- E. Check and readjust operating hardware so that latches engage accurately and positively without forcing and binding.
- F. Standard Clearances: Install units not acoustically rated to meet following:
1. Floor: Maximum 1/4" to 5/8" above floor finish.
 2. Vertical Joints: Flush, light-tight.

- G. Install units so seals are in contact with entire perimeter when units are in closed position, forming light-tight barrier and according to ASTM E557.

END OF SECTION