

**SECTION 10 22 26.13
INTERIOR SLIDING BARN DOORS**

PART 1 - GENERAL

1.1 DESCRIPTION:

- A. This section specifies manually operated, top supported sliding barn doors for restricting access in wall openings.

1.2 RELATED WORK:

- A. Color and Texture of Wood Veneer or Manufactured Resin, SEE SCHEDULE FOR FINISHES.

1.3 QUALITY ASSURANCE:

- A. Manufacturer's Qualifications: Obtain products from single manufacturer who has provided units as specified for a minimum of three (3) years.
- B. Installers Qualifications: Work is to be performed by installer having three (3) years' experience in work relating to this section and approved in writing by partition manufacturer.

1.4 PERFORMANCE REQUIREMENTS:

- A. The partitions are to provide a complete closure of opening when fully extended and latched.
- B. Provide material with flame spread rating of 25 or less, fuel contribution rating of 15 or less, and smoke generation of 50 or less when tested in accordance with ASTM E84. Complete assembly must also meet or surpass the requirements of NFPA 101 and UL 10B.

1.5 SUBMITTALS:

- A. Submit in accordance with Section 01 00 00, GENERAL REQUIREMENTS.
- B. Shop Drawings:
Doors, each type, including methods of installation
- C. Samples: Wood Veneer or Resin, each different partition, 152 mm (6 inch) square.
- D. Manufacturers' Literature and Data:
Operation and maintenance.
- E. Test Reports:
Fire test response characteristics.
- G. Manufacturer's qualifications.
- H. Installer's qualifications.
- I. Manufacturer's warranty.

1.6 WARRANTY:

- A. Construction Warranty: Comply with FAR clause 52.246-21, "Warranty of Construction".
- B. Manufacturer Warranty: Manufacturer shall warranty their doors for a minimum of two (2) years from date of installation and final acceptance by the Government. Submit manufacturer warranty.

1.7 APPLICABLE PUBLICATIONS:

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. ASTM International (ASTM):
 - A1008/A1008M-13.....Steel, sheet, Cold Rolled, Structural, High Strength Carbon, Low Alloy with Improved Formability
 - B221-14.....Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes
 - B221M-13.....Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes (Metric)
 - D751-06 (R2011).....Test Methods for Coated Fabrics
 - E84-14.....Surface Burning Characteristics of Building Materials
 - E90-09.....Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
 - E413-10.....Rating Sound Insulation
 - E557-12.....Architectural Design and Installation Practices for Sound Isolation Between Spaces Separated by Operable Partitions
- C. National Fire Protection Association (NFPA):
 - 70-14.....National Electrical Code
 - 101-15 (R2014).....Life Safety Code
 - 286-15.....Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
- D. Underwriters Laboratories Inc. (UL):
 - 10B-10 (R2009).....Fire Tests of Door Assemblies

PART 2 - PRODUCTS**2.1 MATERIALS:**

A. Facing Materials:

General: Provide facing materials with appropriate backing that comply with indicated fire-test response characteristics, and are factory attached to accordion folding partitions with concealed fasteners.

Covering fabrics must conform to the requirements of ASTM D751 and NFPA 286.

B. Sheet Steel:

1. ASTM A1008/A1008M, cold rolled, commercial quality for partition tracks, lead and jamb posts.
2. The cast or heat analysis report mentioned in the ASTM is not required.

C. Aluminum Extrusions: ASTM B221M (B221), Alloy 3003.

D. Electrical Operators: Provide manufacturer's recommended standard electrical operator.

E. Sound Insulation: Provide sound insulation as necessary to achieve the specified sound transmission class, conforming to ASTM E413.

2.2 FABRICATION:

A. Track:

1. Minimum 2 mm (0.0747 inch) thick sheet steel.
2. Track depth and shape: In accordance with the manufacturer's recommendations for the weight and size of the partition furnished.
3. Steel track: Baked enamel finish.

B. Lead and Jamb Posts:

1. 1.78 mm (0.0747 inch) thick sheet steel.
2. Post depth and shape: In accordance with the manufacturer's recommendations for the weight and size of the partition furnished.
3. Posts: Baked enamel finish.

C. Suspension System:

1. Four (4) wheels for tandem carriers on lead posts and two (2) wheel for intermediate carriers.

2. Wheels: Steel ball bearing with nylon or steel tread, 25 mm (1 inch) diameter for partitions up to 3962 mm (13 feet) high, and 38 mm (1-1/2 inch) diameter for partitions over 3962 mm (13 feet) high.
 3. Intermediate carriers: Placed at every other hinged pair.
- D. Frame: Steel, zinc or cadmium coated, with interior bracing at top and bottom, and mechanism for producing pantograph action.
- F. Seals:
1. Provide seals at floor, ceiling, jambs and abutting edges of sound rated partitions.
 2. Insulating materials in sound resistant partition, perimeter sweep strips and jamb seals are to be the same as those used on laboratory tested models that obtained specified acoustical rating.
- G. Meeting Posts: Two-way type attached to one (1) partition for joining two (2) partitions at right angles.
- H. Hardware:
1. Provide hardware of the heavy-duty type standard with the manufacturer.
 2. Provide pulls and latches for all partitions.
 3. Provide partitions with keyed locks.
- I. Pivot Switch Assembly:
1. Where shown on construction documents, provide pivoted switch assembly to swing stacked section against wall.
 2. Provide shop fabricated assembly of adequate strength to carry required load.
 3. Provide roller at outer end of pivot arms, with retaining spring keepers to prevent partition from running off pivot arm and adjacent track where arm is not in alignment with track, and to hold tracks in alignment.
 4. Entire assembly to be concealed and removable.

2.3 FINISHES:

Steel (Prime Finish):

1. Provide light colored prime paint after fabrication.
2. Paint all contact surfaces of assembled work (except welded contact surfaces and metal concealed in finished work) with an additional shop coat of similar paint.

PART 3 - EXECUTION**3.1 EXISTING CONDITIONS:**

Verify field dimensions prior to fabrication.

3.2 INSTALLATION:

- A. General: Comply with ASTM E557 except as otherwise required by manufacturer's written installation instructions. Install partitions level and plumb, with tight joints and uniform appearance, and free of deformation and surface and finish irregularities.
- B. Install partitions and accessories after other finishing operations, including painting, have been completed.
- C. Flush Type Installation (Surface Mounted): Install track on wall.
- D. Anchorage:
 - 1. Secure tracks to structural steel supports or other support system as shown on construction documents with 13 mm (1/2 inch) through-bolts or anchor bolts as appropriate.
 - 2. Provide bolts near each end of track and at intermediate points not more than 609 mm (2 feet) on centers.
- E. Adjustment:
 - 1. Provide shims or other means as required to make partitions close openings fully and completely.
 - 2. Install partitions so that leading edges fit tight to jambs or opposing partition leading edge for full height of partition.
 - 3. Make all necessary adjustments to assure that hardware functions properly.

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