

**SECTION 10 11 23
TACKBOARDS****PART 1 - GENERAL****1.1 DESCRIPTION:**

- A. This section specifies bulletin boards and glass door bulletin boards, which include tackboards and related items.

1.2 RELATED WORK:

- A. Sustainable Design Requirements: Section 01 81 13, SUSTAINABLE DESIGN REQUIREMENTS.
- B. Manufacturer, Color, and Style Tackboard: Section 09 06 00, SCHEDULE FOR FINISHES

1.3 QUALITY ASSURANCE:

- A. Provide bulletin boards that are the product of one (1) manufacturer that has provided bulletin boards as specified for a minimum of three (3) years.

1.4 SUBMITTALS:

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. Sustainable Design Submittals, as described below:
1. Volatile organic compounds per volume as specified in PART 2 - PRODUCTS.
 2. For composite wood products, submit documentation indicating product contains no urea formaldehyde.
- C. Shop Drawings: Identifying all parts by name and material and showing design, construction, installation, anchorage and relation to adjacent construction.
- D. Manufacturer's Literature and Data:
1. Bulletin board.
 2. Glass door bulletin board.
- E. Samples:
1. Tackboard material, 305 x 305 mm (6 x 6 inches), each color, mounted on backing.
 2. Frame material, 305 mm (6 inch) length.
- F. Manufacturer's qualifications.

1.5 WARRANTY:

- A. Construction Warranty: Comply with FAR clause 52.246-21, "Warranty of Construction".

1.6 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. American Architectural Manufacturers Association (AAMA):
 - 611-14.....Anodized Architectural Aluminum
 - 2603-13.....Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels
- C. American National Standards Institute (ANSI):
 - Z97.1-09.....Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test
- D. ASTM International (ASTM):
 - B221 -14.....Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire, Shapes and Tubes
 - B221M-13.....Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire, Shapes and Tubes (Metric)
 - B429/B429M-10(R2012)....Aluminum-Alloy Extruded Structural Pipe and Tube
 - C208-12.....Cellulosic Fiber Insulation Board
 - C1036-11(R2012).....Flat Glass
 - C1048-12.....Heat-Treated Flat Glass-Kind HS, Kind FT Coated and Uncoated Glass
 - F104-03(R2009).....Nonmetallic Gasket Materials
- E. Code of Federal Regulation (CFR):
 - 40 CFR 59.....Determination of Volatile Matter Content, Water Content, Density Volume Solids, and Weight Solids of Surface Coating
- F. Composite Panel Association (CPA):
 - A208.1-09.....Particleboard
 - A135.4-12.....Basic Hardboard
- G. National Association of Architectural Metal Manufacturers (NAAMM):
 - AMP 500 Series.....Metal Finishes Manual
 - AMP 501.....Finishes for Aluminum

PART 2 - PRODUCTS**2.1 BULLETIN BOARD:**

- A. Provide bulletin board that consists of a tackboard, snap on aluminum frame and grounds.

2.2 GLASS DOOR BULLETIN BOARD:

- A. General: Factory-fabricated unit consisting of manufacturer's standard wall-mounted cabinet with natural cork tackboard panel on back inside surface and operable glazed doors at front.
- B. Aluminum-Framed Cabinet: Extruded aluminum.
- C. Wood-Framed Cabinet: Red oak, Maple, or Walnut in Manufacturer's standard species with natural lacquered finish.
- D. Glazed Sliding Doors: Tempered glass; unframed; with extruded-aluminum top and bottom track; supported on nylon or ball-bearing rollers; with plastic top guide and rubber bumpers. Equip each door with ground finger pull and adjustable cylinder lock with two keys.
- E. Glazed Hinged Doors: Tempered glass; set in frame matching cabinet material and finish. Equip each door with full-height continuous hinge and cylinder lock with two keys.
- F. Illumination System: Concealed top-lighting system consisting of fluorescent-strip or LED fixtures. Include lamps and internal wiring with single, concealed electrical connection to building system.

2.3 MATERIALS:

- A. Hardboard: ANSI A135.4, tempered.
- B. Fiberboard: ASTM C208.
- C. Particleboard: ANSI A208.1, Grade M-1.
- D. Hardwood Plywood: HPVA HP-1.
- E. Natural-Cork Sheet: Seamless, single-layer, compressed fine-grain cork sheet; bulletin board quality; face sanded for natural finish.
- F. Extruded-Aluminum Bars and Shapes: ASTM B221M (ASTM B221), Alloy 6063.
- G. Aluminum Tubing: ASTM B429/B429M, Alloy 6063.
- H. Clear Tempered Glass: ASTM C1048, Kind FT, Condition A, Type I, Class 1, Quality Q3, with exposed edges seamed before tempering.
- I. Fasteners: Provide screws, bolts, and other fastening devices made from same material as items being fastened, except provide hot-dip galvanized, stainless-steel, or aluminum fasteners for exterior applications. Provide types, sizes, and lengths to suit installation conditions. Provide security fasteners where exposed to view.
- J. Adhesives:

1. Adhesives for Field Application: Mildew-resistant, nonstaining adhesive for use with specific type of panels, sheets, or assemblies; and for substrate application; as recommended in writing by visual display unit manufacturer.
2. Adhesives to have VOC content of 50 g/L or less when calculated according to 40 CFR 59 (EPA Method 24).

2.4 COMPONENTS:

- A. Tackboard: Cork face, 6 mm (1/4-inch) thick factory laminated to a hardboard or particleboard backing.
- B. Frames (Trim): Extruded aluminum, 1.5 mm (0.060-inch) thick, snap-on type, approximate face width 44 mm (1-3/4 inch), depth and configuration as required to return to wall and engage clips.
- C. Display Rail: Snap-on type, same materials as frames, approximate face width 25 mm (1 inch) with 6 mm (1/4-inch) thick cork insert.
- D. Mullions: Snap-on type, same material and face width as frames, designed to finish flush with frame.
- E. Grounds: Continuous zinc-coated (galvanized) steel or extruded aluminum members designed to support the tackboard and clips for snap-on frames, and map rail.
- F. Clips: Manufacturer's standard as required to support frame, mullions, and display rail.
- G. Tubular Frame (For glass door bulletin board): Extruded aluminum, 2.34 mm (0.092 inches) thick; tubular or open back in section, with flanges for concealed attachment, designed to support door hardware and tackboard.
- H. Provide bulletin boards 3657 mm (12 feet) or less in length in one (1) piece. Provide larger units with one (1) joint at center. Fabricate joints with metal spline, with faces in same plane and edges that touch along entire length.

2.5 FABRICATION:

- A. Fabricate bulletin boards to dimensions indicated on construction documents, and as specified for dimensions, design, and thickness and finish of materials.
- B. Provide metals and shapes of thickness and reinforcement required to produce flat surfaces, and to impart strength for size, design, and application.
- C. Fabricate cabinets and door frames with reinforced corners, mitered to a hairline fit, with no exposed fasteners.

D. Grind metal edges smooth.

2.6 GENERAL FINISH REQUIREMENTS:

- A. Comply with NAAMM AMP 500 Series for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Noticeable variations in same piece are unacceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved samples and are assembled or installed to minimize contrast.

2.7 ALUMINUM FINISHES:

- A. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm (0.4 mil) or thicker.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL:

- A. Install units in accordance with the manufacturer's installation instructions with concealed fasteners.
- B. Inspect surfaces and related construction to receive units. Verify reinforcement and blocking has been provided in partitions before installation.
- C. Install units as specified by the manufacturer.
- D. Grounds Designed to Receive Clips for Snap-On Trim: Continuous and be secured 305 mm (12 inches) on center.
- E. Miter trim at corners, conceal fasteners. Modify trim as required to conform to surrounding construction details.

3.2 INSTALLATION OF GLASS DOOR BULLETIN BOARDS:

- A. Glass door bulletin board units to be factory assembled, except tackboard may be either field mounted or shop mounted on frame.
- B. Mounting bolts or screws to be oval head of stainless steel, chromium plated steel. . Space fasteners 508 mm (20 inches) on center, except not less than three fasteners each side, top and bottom. Heads of fasteners are not to show on the frame face.

3.3 CLEANING:

- A. Clean tackboards in accordance with manufacturer's written instructions.
- B. Touch-up factory applied finishes restoring damaged or soiled areas.

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