

**SECTION 10 11 13
MARKERBOARDS**

 SPEC WRITER NOTES:

1. Use this section only for NCA projects.
2. Delete between //---// if not applicable to project. Also delete any other item or paragraph not applicable in the section and renumber the paragraphs.

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section specifies markerboards and related items.
- B. Boards may be factory or field assembled.
- C. Where shown, assemble both markerboards and tackboards into a single unit.

1.2 RELATED WORK

- A. Color of // aluminum anodic coating // markerboard writing surface: Section 09 06 00, SCHEDULE FOR FINISHES.

1.3 QUALITY ASSURANCE

- A. Boards to be the products of one manufacturer.

1.4 SUSTAINABILITY REQUIREMENTS

- A. Materials in this section may contribute towards contract compliance with sustainability requirements. See Section 01 81 13, SUSTAINABLE DESIGN REQUIRMENTS, for project // local/regional materials, // low-emitting materials, // recycled content, // certified wood // _____// requirements.
- B. Biobased Material: For products designated by the USDA's BioPreferred® program, provide products that meet or exceed USDA recommendations for biobased content, subject to the products compliance with performance requirements in this Section. For more information regarding the product categories covered by the BioPreferred® program, visit <http://www.biopreferred.gov>.

1.5 SUBMITTALS

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA AND SAMPLES.
- B. Shop Drawings: Identify all parts by name and material and showing design, construction, installation, anchorage and relation to adjacent construction.
- C. Manufacturer's Literature and Data:

1. Markerboard.

D. Samples:

1. Markerboard writing surface, 300 by 300 mm (6 by 6 inches), each color, mounted on backing.
2. Integrally colored anodized aluminum, 300 mm (6 inch) length.
3. Each accessory (after approval, may be used in the work).

1.6 APPLICABLE PUBLICATIONS

A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by the basic designation only. Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified.

SPEC WRITER NOTES:

1. Remove reference citations that do not remain in Part 2 or Part 3 of edited specification.
2. Verify and make dates indicated for remaining citations the most current at date of submittal; determine changes from date indicated on the TIL download of the section and modify requirements impacted by the changes.

B. American National Standards Institute (ANSI):

Z97.1-15	Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test
A208.1-22	Particleboard
A135.4-12	Basic Hardboard

C. American Society for Testing and Materials (ASTM):

B221-21	Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
ASTM-E 84	Standard Test Method for Surface Burning Characteristics for Building Materials

D. National Association of Architectural Metal Manufacturers (NAAMM):

AMP 500 Series	Metal Finishes Manual
AMP 501	Finishes for Aluminum

PART 2 - PRODUCTS

2.1 MARKERBOARD

A. Markerboards consist of a porcelain enamel writing surface, snap on aluminum frame, marker trough, mullions, display rail and accessories, grounds and other items specified and shown.

2.2 FABRICATION

A. Materials:

1. Aluminum, extruded: ASTM B221.
2. Backing: Hardboard, ANSI A135.4 or particleboard, ANSI A208.1.
3. Porcelain Enamel: Provide markerboard writing surface composed of porcelain enamel fused to a nominal 0.378 mm (28 gauge) thick steel, laminated to a minimum 6 mm (1/4 inch) thick core material with a steel or foil backing sheet. Writing surface must be capable of supporting paper by means of magnets.

B. Components:

1. Writing Surface: Factory assembly consisting of face sheet of 24 gauge sheet steel with porcelain enamel finish conforming to PEI 1001, laminated to a hardboard or particleboard backing, 9 mm to 13 mm (3/8 to 1/2-inch) thick, and a 0.13 mm (0.005-inch) thick aluminum foil back sheet laminated to back-face.
2. 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.
3. Marker Trough: Extruded aluminum, 2.34 mm (0.092-inch) thick, not less than 75 mm (3-inch) projection from writing surface with grooved top surface, closed ends and return to wall surface at underside. Design to be snap-on type with concealed fasteners.
4. Accessories: Fabricate from aluminum with holders from spring steel. Design to suit display rail. Furnish accessories as follows:

SPEC WRITER NOTES:

1. Select accessory types required and specify quantity by linear feet of display rail for each accessory.

<u>Accessory Type</u>	<u>Lineal mm (feet) of rail per accessory</u>
Combination map hook and paper holder	_____
Paper holder	_____
Map hook	_____
Roller map bracket with thumb screw	_____

5. Mullions: Snap-on type, same material and face width as frames, designed to finish flush with frame.
6. Grounds: Continuous zinc-coated (galvanized) steel or extruded aluminum members designed to support the markerboard writing surface and clips for snap-on frames, map rail and marker tray.

7. Clips: Manufacturer's standard as required to support frame, mullions, display rail, and marker trough.
- C. Provide markerboards 3660 mm (12 feet) or less in length as one piece. // Larger units to have one joint at center.// Provide metal spline in joints, with faces in same plane and edges touching along entire length. //
- D. Finish exposed aluminum surfaces as follows:
1. // AA 45 chemically etched medium matte, with clear anodic coating Class II Architectural, 0.4 mils thick (AA-M12C22A32). //
 2. // AA 45 chemically etched medium matte, with integrally colored anodic coating, Class II Architectural, 0.4 mils thick (AA-M12C22A32, of color to match approved sample). //

PART 3 - EXECUTION

SPEC WRITER NOTES:

1. Provide reinforcing at partitions to support visual display boards.

3.1 INSTALLATION, GENERAL

- A. Install units in accordance with the manufacturer's installation instructions, use concealed fasteners.
- B. Inspect surfaces and related construction to receive units. Verify partitions have reinforcing to receive fasteners. Verify type and placement of reinforcement.
- C. Do not proceed with the installation until reinforcement is in place and surfaces are flat.
- D. Assemble units as specified by the manufacturer.

3.2 INSTALLATION OF MARKERBOARD

- A. Mount markerboard with adhesive and blocking pads spaced 16 inches on center each way.
- B. Grounds designed to receive clips for snap-on trim to be continuous and be secured 300 mm (12 inches) on center. Space clips 300 mm (12 inches) on center.
- C. Miter trim at corners, conceal fasteners. Modify trim as required to conform to surrounding construction details.

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