

SECTION 10 11

BULLETIN BOARDS

HIGHLIGHTED SECTIONS REQUIRE SELECTION BY ARCHITECT OR OWNER BEFORE BID SUBMITTAL. REMOVE HIGHLIGHTED TEXT UPON COMPLETION.

PART 1 – GENERAL

* Drawings and general provisions of the contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section

1.1 DESCRIPTION OF WORK

- A. ProTak Bulletin Boards

1.2 REFERENCES

- A. (ANSI) American National Standards Institute
 1. ANSI H35.1 - Alloy and Temper Designation for Aluminum.
 2. ANSI A135.4 - American National Standard for Basic Hardboard.
- B. (ASTM) American Society for Testing and Materials
 1. ASTM B 221 - Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
 2. ASTM C 208 - Specification for Cellulosic Fiber Insulating Board.
 3. ASTM E-84 – Standard Testing Method for Surface Burning Characteristics of Building Materials.

1.3 SUBMITTALS

- A. PRODUCT DATA: For each type of visual display board indicated, provide technical data & materials test reports (where applicable)
- B. SHOP DRAWINGS: For each type of visual display board required.
 1. Include dimensional elevations.
 2. Show location of joints between individual panels where unit dimensions exceed maximum panel length.
 3. Show anchors, grounds, reinforcement, and installation details.
 4. Show locations and quantities of accessories.
 5. Show special purpose graphics required in rooms as indicated on drawings as listed below:
REMOVE UNUSED
 - a. Color graphics on tackable surfaces: Cork or Vinyl surfaces up to 4-feet high. Full vector art files required.
- C. SAMPLES & COLOR CHARTS:
Manufacturer's color charts showing the full range of colors and textures available for the following and dispersed at architect request:
 1. PANELS:

- a. Tackboards: Furnish swatches for color sections as described in Part 2.2 - Materials:
 - i. Vinyl: Manufacturer standard 22 OZ. Vinyl - Burlap Weave color range Class A (Type 1). (or as chosen by architect)
 - ii. Fabric: Guilford of Maine panel 2100- FR701 standard panel fabric color range Class A (Type 1). (or as chosen by architect)
 - iii. Colored Cork: Forbo Linoleum Inc. 1/4-inch (6-mm) cork bulletin board color range.
 - iv. Natural Cork: Required at not less than 4-inch (100-mm) squares.
- 2. TRIM:
 - a. Anodized aluminum trim and accessories: Samples of each type and finish on 6-inch (150-mm) long sections of extrusions. Include sample sets showing the full range of color variations expected.
 - b. Paint: Sherwin Williams polyurethane enamel standard Polane color selector chart or color selected to match architect specification.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer who is an authorized representative of visual display board manufacturer for both installation and maintenance of the type of display products required for this project.
- B. Source Limitations: Obtain visual display boards through one source from a single manufacturer.
- C. Product Options: Drawings indicate size, profiles, and dimensional requirements of visual display boards and are based on the products indicated. Other manufacturers' products with equal performance characteristics may be considered. Refer to Division 1 Section "Substitutions."
 - 1. Do not modify intended aesthetic effects, as judged solely by the Architect, except with the Architect's approval and only to the extent needed to comply with performance requirements. Where modifications are proposed, submit comprehensive explanatory data to Architect for review.
- D. Fire-Test-Response Characteristics: For vinyl/fabric-faced tack surfaces, provide Class A (or Class 1) performance characteristics identical to those required in this Section per ASTM E 84.
- E. Operation and Maintenance: Include data on regular cleaning, stain removal and general precautions.
- F. Delivery, Storage and Protection: Deliver factory built units crated for protection and secured to the trailer whenever possible. Once delivered, inspect the unit for damage and return to crating for storage. Store crated units protected from low temperatures (above 55 degrees Fahrenheit) and humidity variations or possible jobsite traffic damage until the system is ready to be installed.

1.5 PROJECT CONDITIONS

- A. Verify field measurements before fabrication to ensure proper fitting. Coordinate fabrication lead time with construction progress to avoid delaying the work. Notify Architect of any conflicts with other construction such as casework, electrical switches, outlets, clocks, fire detector devices, etc.
 - 1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish dimensions and proceed with the fabricating without field measurements

allowing time for trimming and fitting. Coordinate wall construction to ensure actual dimensions correspond to established dimensions.

2. Coordinate delivery with field conditions to provide proper temperature (above 55 degrees Fahrenheit) and humidity variations and protect from possible jobsite traffic damage until the system is ready to be installed.

1.6 WARRANTY

- A. Submit a written warranty executed by manufacturer agreeing to supply replacement materials that do not retain their original tackable quality, cracking, or flaking within the specified warranty period, provided the manufacturer's written instructions for handling, installation, protection, and maintenance have been followed.

1. Warranty Period: 5 years.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the work.
 1. ProTak as distributed by K-Pro Specialty Products, P.O. Box 731, Bath, Ohio, 44210-0731, telephone 330-668-1515, fax 330-668-1515, www.k-prosteel.com.
 2. Acceptable Manufacturers:
 - a. Educational Equipment Corporation
 - b. Schalow Manufacturing Company Inc.
 - c. Cig- Jan Products Ltd.
 - d. Marsh Industries Inc.
 - e. Substitutions: See Section 01 – Product Requirements

2.2 MATERIALS

A. PROTAK BULLETIN BOARDS

1. SIZE AND CONFIGURATION:
Constructed in one piece up to 4-feet high and 16-feet wide with no seams. Oversized boards include Mullion connections available with mullion-wrapped fabric/vinyl facing.
2. PANELS:
Consist of facing material laminated to core laminated to backing to total 1/2-inch (12-mm) thick following factory laminating procedures. Other thicknesses available including fabric/vinyl edge wrapping & concealed aluminum edge wrapped panels [HCR]. Laminating adhesive consist of manufacturer's standard, moisture-resistant, thermoplastic-type adhesive.
 - a. Facing:
CHOOSE FACING

- Tackable Fabric: Mildew-resistant, Washable fabric weighing not less than 16 oz./lin. yd. Provide Class 1 (A) fabric with a flame-spread rating of 25 or less when tested according to ASTM E-84. Provide color and texture as scheduled or as selected from manufacturer's standard Guilford of Maine Panel Fabric style 2100 – FR701 or as chosen by architect.
- Tackable Vinyl: 22 OZ. PLY specifically produced for tackable surfaces. Mildew-resistant, washable vinyl complying with FS CCC-W-408, Type 1 Class A vinyl.
- Colored Cork: Forbo Linoleum resilient tackable surface, 1/4-inch (6-mm) all natural materials with burlap binders, Uni-color shall extend throughout thickness of material, contains no harmful byproducts or carcinogens, Class B rated in accordance to ASTM E-84, Class II rated in accordance to NFPA 255, Zero-effect chemical resistance to diluted acids and solvents with no resistance to high alkalis, Washable finish to retain original appearance and resists cracking, drying and peeling, Self-healing from thumbtacks and pin punctures, Self-sanitizing quality in the form of a bactericidal effect. Provide color as selected from manufacturer's standard Forbo Bulletin Board color chart.
- Natural Cork: Face-sanded natural granulated cork surface 1/4-inch (6-mm) or 1/8-inch (3-mm) thick.
- Hook and Loop fabric: Colors chosen from manufacturer standards.
- Other fabric or vinyl (specify)

b. Core:

CHOOSE CORE

- Fiberboard [standard for vinyl and fabric]
- Fire Rated Fiberboard
- 1/4-inch (6-mm) thick Cork laminated to 1/4-inch (6-mm) thick Hardboard [can be used with fabric or vinyl]
- 1/8-inch (3-mm) thick Cork laminated to 3/8-inch (9-mm) thick Fiberboard [to be used with fabric or vinyl]
- Other (specify)

3. FRAME & FINISH:

Trim of not less than 1/16-inch (1.6-mm) thick, extruded-aluminum alloy 6063T5. Size and shape as indicated, to suit installation type.

a. Finish:

CHOOSE FINISH

- Clear Satin Anodized Aluminum [standard]
- Dark Bronze Anodized Aluminum
- Aluminum with polyurethane enamel coating with a minimum film thickness of 1.5 mils when dry. All exposed surfaces to be free of scratches, blemishes or any other imperfections. Extra touch-up paint available upon request.

b. Style:

CHOOSE TRIM STYLE

- J-Trim [standard]
- EZ Hang Trim: concealed fasteners
- Deluxe Trim
- Deluxe EZ Hang: concealed fasteners
- Edge wrapped: Fabric or Vinyl (No edge trim)

- HCR Trim: Faceless aluminum trim edge-wrapped by Fabric or Vinyl with concealed fasteners
- Other (specify)

c. Panel Connector Trim:

REMOVE SECTION E and OPTIONAL FACE WRAPPING AS REQUIRED

- Mullion [H-Bar] aluminum extrusion compatible with trim style chosen above.
- Optional Connector Trim face-wrapped by vinyl or fabric to match Section 2.2B2a.

2.3 FABRICATION

A. General:

1. Comply with indicated requirements for materials, thickness, finishes, colors, and sizes of construction.
2. Factory assembled units to be completely assembled prior to delivery in accordance to dimensions shown on architectural drawings.
3. For structural integrity, all corners to be notched and bent within an acceptable alloy range or mitered to a neat, hairline closure and braced internally by corner angles. Corners shall be self-supporting and not dependent on core panel for strength and stability.
4. Splices: Make joints only where total length exceeds maximum manufactured length or job site conditions require. Fabricate minimum number of joints, balanced around center of board, coordinate with Architect.
5. When supplying vinyl/fabric coated tackboards provide vinyl/fabric covered "H" mullion trim between tackboard panels.

B. Substitutions:

1. No substitutions permitted.

2.4 FINISHES

- A. Aluminum Trim: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes. Finish designations prefixed by AA conform to the system established by The Aluminum Association for designating aluminum finishes. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: Nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating; Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 607.1.

PART 3 – EXECUTION

3.1 EXAMINATION

A. General:

1. Examine wall surfaces, with Installer present, for compliance with requirements and other conditions affecting installation.
2. Verify required anchorage have been installed such as blockings.
3. Surfaces to receive tackboards shall be dry and free of substances that would impair the bond between tackboards and substrate.
4. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General:

1. When overall dimensions require delivery in separate units, prefit components at the factory, disassemble for delivery, and make final joints at the site. Use mullions or splines at panel joints to maintain surface alignment. Do not make any contact with panel edges to be splined.
2. Provide grounds, clips, backing materials, adhesives, brackets, anchors, trim and accessories necessary for complete installation.
3. Install fasteners for perimeter trim at 12 to 16 inches on center.
4. Install units in locations and at mounting heights indicated and according to manufacturer's written instructions. Keep perimeter lines straight, plumb, and level.
5. Do not install visual display boards over or block any mechanical or electrical openings or utilities. Should this condition occur, notify the Construction Manager for directions.
6. Apply linoleum type adhesive or spacers behind each fixed board as recommended by manufacturer at no less than 2-feet apart.

B. Standard Board Mounting Heights:

1. Kindergarden: 24 inches above finished floor.
2. First through Third Grades: 26 inches above finished floor.
3. Fourth through Sixth Grades: 30 inches above finished floor.
4. Seventh through Ninth Grades: 34 inches above finished floor.
5. Tenth and higher Grades: 37 inches above finished floor.

C. Accessories: Mount as indicated

3.3 CLEANING AND PROTECTION

A. General:

1. Verify that accessories required for each unit have been properly installed and that operating units function properly.
2. Clean face panels and aluminum trim in accordance to manufacturer recommendations, leaving all materials ready for use.
3. Remove construction debris from project site and dispose of in accordance to local laws.

B. Protection:

1. Properly protect finished surfaces from site damage where possible.

End of Section