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Kelly Lanier

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## SECTION 10 1100

### VISUAL DISPLAY UNITS

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by one of the following methods:

Microsoft Word 2010: Display the FILE tab on the ribbon, click OPTIONS, then on left menu click on DISPLAY. Under ALWAYS SHOW THESE select or deselect HIDDEN TEXT.

Microsoft Word 2007: Click the OFFICE button, select WORD OPTIONS, select Display, then select or deselect the HIDDEN TEXT option.

Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

This master specification section has been prepared by AJW Architectural Products for use in the preparation of a project specification section covering markerboards, tackboards, sliding marker boards, bulletin boards, and display cases.

This specification is a part of the SpexPlus™ system, which comprises a full architectural master specification that can be used to specify all project requirements.

Other guide specifications are available from AJW covering the following products:

Section 10 2114 - Stainless Steel Toilet Compartments  
Section 10 2116 - Solid Plastic Toilet Compartments  
Section 10 2813 - Toilet Accessories  
Section 10 5113 - Metal Lockers

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

([www.spexplus.net](http://www.spexplus.net))

Optional text requiring a selection by the user is enclosed within brackets, e.g.: "Section [09 0000.] [\_\_\_\_.]"

Items requiring user input are enclosed within brackets, e.g.: "Section [\_\_\_\_ - \_\_\_\_]."

Optional paragraphs are separated by an "OR" statement, e.g.:

\*\*\* OR \*\*\*

Sustainable requirements are included for projects requiring LEED certification, and are included as green text. For additional information on LEED, visit the U.S. Green Building Council website at [www.usgbc.org](http://www.usgbc.org).

For assistance on the use of the products in this section, contact AJW Architectural Products by calling 845-562-3332, email at [specs@ajw.com](mailto:specs@ajw.com), or visit their website at [www.ajw.com](http://www.ajw.com).

For assistance with obtaining or using the SpexPlus™ Master Specification System contact SpexPlus by calling 1-888-877-SPEX (1-888-877-7739), by email at [chaney@spexplus.net](mailto:chaney@spexplus.net), or visit our website at [www.spexplus.net](http://www.spexplus.net).

#### PART 1 GENERAL

##### 1.1 SUMMARY

Edit the following paragraphs to include only those items specified in this section.

- A. Section Includes:
  - 1. Markerboards.
  - 2. Tackboards.
  - 3. Horizontal sliding units.
  - 4. Display cases.
  - 5. Bulletin boards.

Coordinate the following paragraphs with other sections in the project manual.

- B. Related Sections:
  - 1. Division 01: Administrative, procedural, and temporary work requirements.

## 1.2 REFERENCES

In the following paragraphs, retain only those reference standards that are used elsewhere in this section.

- A. ASTM International (ASTM) ([www.astm.org](http://www.astm.org)):
  - 1. B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
  - 2. E84 - Standard Test Method for Surface Burning Characteristics for Building Materials.
- B. Federal Specifications (FS) CCC-W-408D - Wall Covering, Vinyl Coated.

## 1.3 SUBMITTALS

Limiting submittals to only those actually required helps to minimize liability arising from the review of submittals. Minimize submittals on smaller, less complex projects.

Include the following for submission of shop drawings, product data, and samples for the Architect's review.

- A. Submittals for Review:
  - 1. Shop Drawings: Illustrate each visual display unit required; include dimensioned elevations of each display board; show anchors and accessories.
  - 2. Product Data: Descriptive data on display boards, including [markerboard] [and] [tackboard] surface, frame, trim, and accessories.
  - 3. Samples: Provide samples illustrating face, core, backing, and trim material showing colors and textures.

Include the following for submission of sustainable design submittals.

- B. Sustainable Design Submittals:
  - 1. Regional Materials: Certify distance between manufacturer and project and between manufacturer and extraction or harvest point in miles.
- C. Closeout Submittals:
  - 1. Maintenance Instructions: Include cleaning and stain removal procedures and precautions.

## 1.4 QUALITY ASSURANCE

Coordinate the following with building code requirements; edit to suit project requirements.

- A. Tackboards: Maximum flame spread/smoke developed rating as required by Code, tested to ASTM E84.

## 1.5 DELIVERY, STORAGE AND HANDLING

- A. Provide factory-installed protective covering for markerboards; do not remove until after installation.

- B. Store products upright in manner providing proper protection.

## 1.6 WARRANTIES

- A. Markerboards: Provide manufacturer's life of original installation warranty providing coverage against loss of original writing or erasing capabilities, crazing, cracking, flaking, and staining.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Contract Documents are based on products by AJW Architectural Products, 509 Temple Hill Road, New Windsor, NY 12553, 845-562-3332, [www.ajw.com](http://www.ajw.com), [specs@ajw.com](mailto:specs@ajw.com).

Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

### 2.2 MARKERBOARDS

- A. Markerboards:
  1. Balanced, high-pressure laminated, porcelain enamel markerboards, three ply construction consisting of face sheet, core material, and backing.
  2. Face sheet: Enameling grade cold-rolled steel specially processed for temperatures used in coating porcelain on steel. Coat faces and exposed edges with three coat process consisting of primer, ground coat, and color cover coat.

Edit the following to indicate desired type of core material.

3. Core material: 1/2 inch thick [particleboard, ANSI A208.1, Grade 1-M-1.] [Hardboard.]
4. Backing sheet: Manufacturer's standard aluminum foil sheet.
5. Laminating adhesive: Manufacturer's standard moisture resistant thermoplastic adhesive.

### 2.3 TACKBOARDS

Include the following for natural cork tackboards.

- A. Natural Cork Tackboards:
  1. Balanced, high pressure laminated, natural cork tackboards, two ply construction consisting of natural cork face sheet and backing.

Edit the following to indicate desired cork thickness.

2. Face sheet: [1/8] [1/4] inch thick self-healing natural cork sheet.

Edit the following to indicate desired backing sheet.

3. Backing sheet: [1/4 inch thick hardboard.] [3/8 inch thick fiberboard.]
4. Laminating adhesive: Manufacturer's standard moisture resistant thermoplastic adhesive.

Include the following for vinyl-fabric-faced cork tackboards.

- B. Vinyl Fabric-Faced Cork Tackboards:
  1. Balanced, high-pressure laminated, vinyl fabric-faced cork tackboards, three ply construction consisting of vinyl fabric face sheet, cork sheet core material, and backing.
  2. Vinyl fabric face Sheet: Mildew-resistant, washable vinyl fabric complying with FS CCC-W-408D, weighing minimum 13 ounces per square yard.

Edit the following to indicate desired cork thickness.

3. Cork sheet: [1/8] [1/4] inch thick self-healing natural cork sheet.

Edit the following to indicate desired backing sheet.

4. Backing sheet: [1/4 inch thick hardboard.] [3/8 inch thick fiberboard.]
5. Laminating adhesive: Manufacturer's standard moisture resistant thermoplastic adhesive.

Include the following for colored cork tackboards.

- C. Colored Cork Tackboards:
  1. Balanced, high-pressure laminated, colored cork tackboards, two ply construction consisting of colored cork face sheet material, and backing.
  2. Face Sheet: Seamless, 1/4 inch thick, self-healing ground natural cork compressed with resinous binder with washable vinyl finish and integral color throughout, laminated to burlap backing.
  3. Backing sheet: 1/4 inch thick hardboard.
  4. Laminating adhesive: Manufacturer's standard moisture resistant thermoplastic adhesive.

## 2.4 ALUMINUM TRIM AND ACCESSORIES

- A. Aluminum Trim:
  1. Fabricate from minimum 0.062 inch thick extruded aluminum alloy of proper size and shape to suit installation.
    - a. Minimize joints.
    - b. Miter corners to neat, hairline closure.
  2. Frame markerboards and tackboards with [3/4 inch flat trim.] [1-1/2 inch box trim.] [1-1/4 inch wide flat trim.]
- B. Marker Tray: Manufacturer's standard continuous, [solid type aluminum tray with ribbed section.] [box type aluminum tray with slanted front and cast aluminum end closures.]
- C. Map Rail:
  1. Rail: Continuous cork display rail [1 inch] [2 inches] wide, integral with map rail.
  2. End stops: One end stop each at each end map rail.
  3. Map hooks: Two map hooks with flexible metal clips for each 48 inches of map rail.
  4. Flag holder: One flag holder for each map rail.

## 2.5 HORIZONTAL SLIDING UNITS

- A. Horizontal Sliding Units:
  1. Trim and panel edging fabricated from heavy gauge extruded aluminum.
  2. Mount nylon ball bearing rollers on top of each sliding panel.
- B. Mounting Style: [Surface mounted.] [Recessed.]
- C. Back Panel: [Porcelain enamel markerboard.] [Natural cork tackboard.] [Colored cork tackboard.] [Vinyl faced tackboard.] [None.]

Edit the following to indicate desired number of sliding panels.

- D. Number of Sliding Panels: [Two.] [Three.] [Four.]

Edit the following to indicate desired number of tracks.

- E. Number of Tracks: [Two.] [Three.] [Four.]
- F. Sliding Panel Material: [Porcelain enamel markerboard.] [Natural cork tackboard.] [Colored cork

tackboard.] [Vinyl faced tackboard.]

## 2.6 DISPLAY CASES

### A. Recessed Display Cases:

Edit the following to indicate desired back panel type.

1. Back panel: [Natural cork tackboard.] [Colored cork tackboard.] [Vinyl faced tackboard.] [Wood veneer.]

Edit the following to indicate desired box type.

2. Wood box: [Wood veneer, low pressure laminate material, as side panels for display case.] [None.]

Edit the following to indicate desired trim type.

3. Aluminum trim: Heavy gauge extruded aluminum, [1 inch] [2 inches] [3 inches] wide.

Edit the following to indicate desired door type.

4. Doors: 3/16 inch thick tempered safety glass, [sliding] [hinged] type.
5. Shelving: Three adjustable glass shelves with brackets for attachment to vertical standards.

In the following paragraph select sliding ratchet type for sliding doors and tumbler type for hinged doors.

6. Lock: [Sliding ratchet] [Tumbler] type.

Include the following for optional lighting.

7. Lighting: Top mounted fluorescent strip lighting fixtures.

### B. Surface Mounted Display Cases:

1. Housing: 1.5 x 2 inch extruded aluminum tubing.

Edit the following to indicate desired back panel type.

2. Back panel: [Natural cork tackboard.] [Colored cork tackboard.] [Vinyl faced tackboard.] [Wood veneer.]

Edit the following to indicate desired door type.

3. Doors: 3/16 inch thick tempered safety glass, [sliding] [hinged] type.
4. Shelving: Three adjustable glass shelves with brackets for attachment to vertical standards.
5. Lock: Sliding ratchet type.

Include the following for optional lighting.

6. Lighting: Top mounted fluorescent strip lighting fixtures.

## 2.7 BULLETIN BOARDS

### A. Aluminum Framed Bulletin Boards:

1. Back panel: [Natural cork tackboard.] [Colored cork tackboard.] [Vinyl faced tackboard.]
2. Housing: 3 inch extruded aluminum.

Edit the following to indicate desired door type.

3. Doors: 3/16 inch thick tempered safety glass, [sliding] [hinged] type.
4. Lock: Sliding ratchet type.

## 2.8 ACCESSORIES

- A. Fasteners: Type best suited to application; head finish to match frame where exposed.

## 2.9 FABRICATION

- A. Markerboards: Laminate face and backing sheets to core material under pressure with each substrate having minimum 80 percent coverage with 1.5 to 2.0 dry mils of laminating adhesive.
- B. Factory assemble units.

## 2.10 FINISHES

Include the following for porcelain enamel marker board; edit to indicate desired writing surface.

- A. Markerboards: Medium gloss white finish suitable for use with erasable dry markers.

Include the following for vinyl fabric-faced cork tackboards; edit to indicate desired color.

- B. Vinyl Fabric: [ ] color [to be selected from manufacturer's full color range].

Include the following for colored cork tackboards; edit to indicate desired color.

- C. Colored Cork: [ ] color [to be selected from manufacturer's full color range].
- D. Aluminum Frame and Trim: Clear satin anodized.

## **PART 3 EXECUTION**

### 3.1 INSTALLATION

- A. Install visual display boards in accordance with manufacturer's instructions.
- B. Set plumb and level, with perimeter trim straight.
- C. Secure with concealed fasteners.

Retain the following for illuminated display cases.

- D. Connect lighting to power supply.

### 3.2 CLEANING

- A. Remove temporary protective coverings.
- B. Clean surfaces in accordance with manufacturer's instructions.

END OF SECTION

## Care, Cleaning, and Maintenance Instructions – Visual Display Products

### Markerboards:

#### Initial Cleaning:

All AJW markerboards are delivered with a protective film in order to keep the porcelain surface safe during shipment and installation. Prior to the initial use of the board, a utility knife can be used to cautiously cut around the inside edge of the aluminum trim. The film can then be peeled off of the board.

Before using the markerboard for the first time, it is important to follow the cleaning instructions below to remove any dust or residue that may have settled during shipping or storage.

1. Gently clean the entire board with a clean cloth and a high quality whiteboard cleaner or a glass cleaner with ammonia (Note: Using a caustic, or abrasive type of cleaner may harm the porcelain surface, and should not be used)
2. Remove the remaining dirt and residue by using a dry clean cloth.
3. Rinse the surface with clean water to remove any residue potentially left behind from the cleaner.
4. Dry the surface using a soft, dry cloth and remove any liquid that may have accumulated in the markertray.

#### Daily Care and Cleaning:

Markerboards can be cleaned as often as required. Cleaning will not negatively affect the condition of the porcelain markerboard as long as the proper cleaning method described above is followed. AJW recommends that you clean the markerboard surface at least twice a week.

AJW also recommends that the board is erased after every use. The board will be harder to erase if the ink is allowed to be left on the board for an extended period of time.

It is also important to use the proper dry erase markers. Low odor markers are hard to erase, and do not perform well on the porcelain surface. Even with proper cleaning, a faint marker residue may remain if low odor markers are used.

#### Permanent Marker Removal:

Permanent marker can easily be removed from the porcelain surface by gently rubbing isopropyl alcohol with a clean cloth on the affected area until the stain is removed. Rinse the area with clean water and dry the surface prior to use.



## **Tack Surfaces:**

### Natural Cork:

Dust should be wiped away with a soft dry cloth. Stubborn soil may be removed with very fine sandpaper.

### Colored Cork:

Clean with a mild soap and water solution to remove dirt. Stubborn stains can be washed using any common pH neutral cleanser. After using soap or cleanser, rinse the surface with clear water, and dry with an absorbent clean cloth.

### Vinyl Covered Tackboards:

Clean with a mild soap and water solution to remove dirt or grime. For stubborn stains, a household detergent may be used on the vinyl surface. Do not use harsh chemicals or abrasive cleaning products as these can damage the vinyl surface. Rinse with water after cleaning and dry surface with a clean cloth.

### Fabric Covered Tackboards:

Lint and dust may be removed using a lint roller. Stains should be removed using a mild detergent or household upholstery cleaner, with a sponge.

## Tackboard Colors - Colored Cork



Desert Sand (2067)



Grey (2162)



Tan (2166)



Stone (2182)



Blue (2185)



Buff (2186)



Fawn (2187)



Red (2201)



Black (2202)



Green (2203)



Graphite (2204)



Midnight Blue (2205)

**Note: Color charts are printed approximations--actual colors may vary. Please contact AJW to request a sample.**

## Tackboard Colors - Designer Fabric



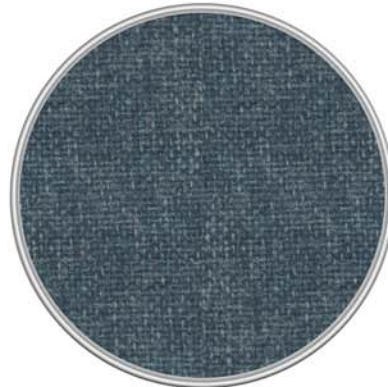
Black (5001)



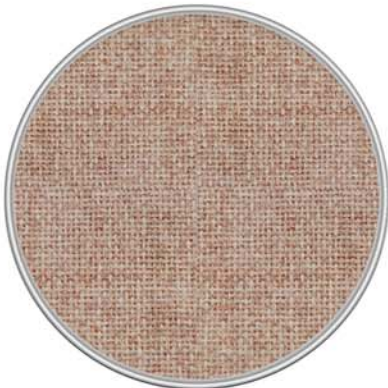
Wheat (5002)



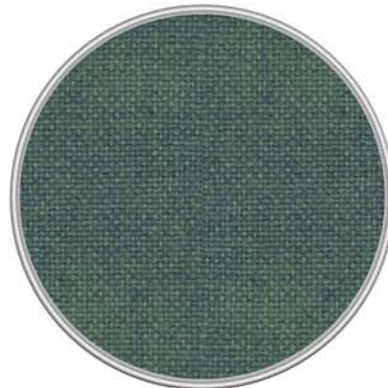
Pearl (5003)



Wedgewood (5004)



Cherry Neutral (5005)



Blue Spruce (5006)

**Note: Color charts are printed approximations--actual colors may vary. Please contact AJW to request a sample.**

## Tackboard Colors - Type II Vinyl



Cotton White (4001)



Moss (4002)



Buttercup (4003)



Stone (4004)



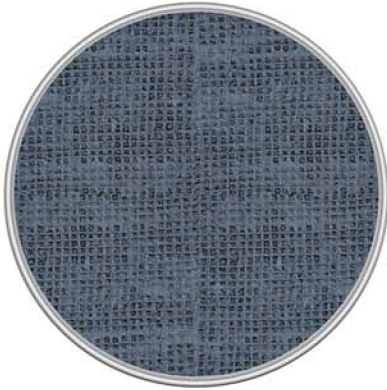
French Blue (4005)



Amethyst (4006)

**Note: Color charts are printed approximations--actual colors may vary. Please contact AJW to request a sample.**

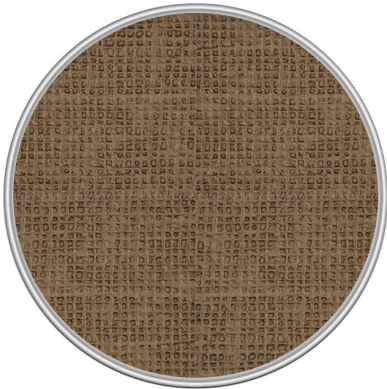
## Tackboard Colors - Type I Vinyl



Denim (3001)



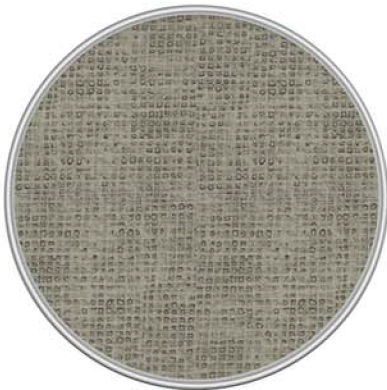
Bleached (3002)



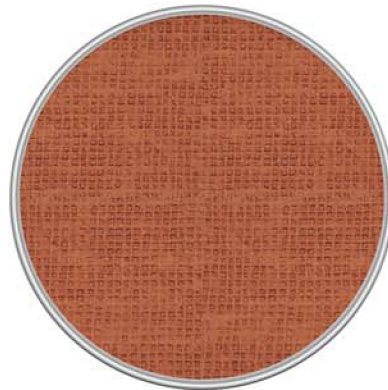
Natural (3003)



Taupe (3004)



Platinum (3005)



Persimmon (3006)

**Note: Color charts are printed approximations--actual colors may vary. Please contact AJW to request a sample.**

## Wood Veneer Colors



Natural Maple (7001)



Amber Maple (7002)



Wild Cherry (7003)



Select Cherry (7004)



Mahogany (7005)



Walnut (7006)

**Note: Color charts are printed approximations--actual colors may vary. Please contact AJW to request a sample.**



## Warranty – Visual Display Products

Subject to the terms set out in this warranty, AJW guarantees its Visual Display Products, to be free from manufacturing defects in material and workmanship for the specified periods below, all from the date of shipment.

- **Life of the Building** – Porcelain Enamel Markerboard Writing Surface
- **Five (5) Years** – All AJW Tackboard surfaces
- **One (1) Year** – Display Cases, Bulletin Boards, Conference Units

This warranty is for material supplied by AJW only, and only applies to the original installation of the Visual Display Products, installed in accordance with AJW's written installation instructions. AJW's recommendations for proper handling, storage, cleaning, and maintenance must be followed for this warranty to be valid.

This warranty excludes defects in the Visual Display Products caused by: vandalism, improper use, improper installation, neglect, and environmental damage. Note: AJW Visual Display Products should be stored and installed in environments that are temperature controlled. Mold and mildew can develop in wet, damp, or humid environments. It is essential that boards are not installed on CMU or concrete walls that are not fully cured. Masonry wall condensation (sweating) can lead to mold damage and warped or distorted boards. The AJW Visual Display Products warranty will void when boards are installed in improperly conditioned environments or on uncured walls.

If the Visual Display Product is found to be defective in workmanship or materials within the warranty period, AJW will replace all affected components, free of charge. AJW will not be responsible for any other expenses including, but not limited to: removal costs, installation costs, or any other costs associated with the repair or replacement of the Visual Display Product.

The replacement or repair of defective material as stated in this warranty shall constitute the sole remedy of the buyer and the sole liability of AJW under this warranty. AJW shall not be liable for any incidental, consequential, or indirect damages caused by the failure or defect in the material supplied, or any delay in the replacement or repair of warranty items.

Warranty claims must be made during the warranty period, and communicated to AJW by contacting AJW Architectural Products at: 509 Temple Hill Road – New Windsor, NY 12553 - Phone: 845-562-3332.