

SECTION 101100
VISUAL DISPLAY UNITS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Markerboard Sliding Wall System.
- B. Chalkboard Sliding Wall System.
- C. Tackboard Sliding Wall System.

1.02 REFERENCE STANDARDS

- A. ANSI A135.4 - Basic Hardboard; 2012 (Reaffirmed 2020).
- B. ANSI A208.1 - American National Standard for Particleboard; 2022.
- C. ASTM A424/A424M - Standard Specification for Steel, Sheet, for Porcelain Enameling; 2018.
- D. ASTM C208 - Standard Specification for Cellulosic Fiber Insulating Board; 2022.
- E. ASTM F793/F793M - Standard Classification of Wall Coverings and Ceiling Coverings by Use Characteristics; 2025.
- F. PS 1 - Structural Plywood; 2023.

1.03 SUBMITTALS

- A. Product Data: Submit construction details, descriptions of materials, dimensions of each component and profile, finishes, and accessories for all visual display units.
- B. Shop Drawings: : Indicate plans, wall elevations, dimensions, joint locations.
 - 1. Indicate panel joint locations, including field-assembled joints for factory units exceeding shipping size, if applicable.
- C. Color Samples: Provide a complete set of color swatches showcasing the manufacturer's full selection of colors and finishes for Sliding Wall Systems.
- D. Samples: Two, [10" by 10"] inches [254 by 254] mm in size illustrating materials and finish, color and texture of tackable surfaces
- E. Manufacturer's printed installation instructions.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 20 years documented experience.

1.05 **WARRANTY**

- A. Provide the manufacturer's standard Life Time year warranty for chalkboard and markerboard, and five year warranty for tackboard, against discoloration due to cleaning, crazing or cracking and staining.
- B. The warranty excludes labor and any additional material expenses related to the removal or reinstallation of Sliding Wall Systems.
- C. When properly installed per manufacturer instructions, Sliding Wall Systems are warranted for one year against workmanship defects. This warranty excludes damage from misuse, vandalism, or improper handling and covers only material replacement, not removal or reinstallation costs.

PART 2 PRODUCTS

2.01 **MANUFACTURERS**

- A. **Visual Display Units**
 - 1. Nelson Adams NACO.
 - 2. Address: 420 S. E St San Bernardino CA 92401
 - 3. P. (877) 810-4080
 - 4. Web Page: <https://nelsonadamsnaco.com>

2.02 **SLIDING WALL SYSTEMS**

- A. **Sliding Wall System:** Factory-fabricated, top-hung sliding wall system for interior space division. Panels feature aluminum frames with specified core and surface materials such as markerboard, tackable, or chalkboard. Includes concealed track, soft-close hardware, and trim for complete, smooth, and precise installation.
- B. **Sliding Wall System Options:** [Chalk Board][Marker Board][Tack Board]
- C. **Height:** As indicated on drawings.
- D. **Length:** As indicated on drawings.
- E. **Frame:** Extruded aluminum
- F. **Frame Profile:** As indicated on drawings.
- G. **Frame Finish:** [Anodized, Clear][Powder Coating]
 - 1. Color: As indicated on drawings.
- H. Configuration: [**Custom Configurations Available**]
 - 1. Two-Track:
 - a. Two Sliding Panels: Each panel not less than one-half of unit length.
 - 2. Three-Track:
 - a. Three Sliding Panels: Each panel not less than one-half of unit length.
 - 3. Four-Track:
 - a. Two Fixed Front Panels: One-quarter length of unit, minimum; on each side of unit.
 - b. Four Sliding Panels: Each panel not less than one-quarter of unit length.

SLIDING WALL SYSTEM

NELSON ADAMS

MASTERSPECS

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Visual Display Units

- I. [Sliding Markerboard Panels] [Sliding Chalkboard Panels] : Porcelain enamel on steel, laminated to core.
 1. **Markerboard Color:** [White], [High][Low] gloss.
 2. **Chalkboard Color:** [Green][Black]
 3. Steel Face Sheet Thickness: 24 gauge, 0.0239 inch (0.61 mm) and 28 gauge, 0.0149 inch (0.38 mm).
 4. **Core:** [Fiberboard], [1/2" Inch Thick (12.7 mm)], laminated to face sheet.
 - a. **Alternate Cores:**
 - 1) Particleboard.
 - 2) Fiberboard.
 - 3) Hardboard.
 - 4) MDF.
 - 5) Honey Comb.
 - b. **Alternate Thicknesses:**
 - 1) 7/16" Inch Thick ([11.11 mm])
 - 2) 3/8" Inch Thick ([9.52 mm])
 - 3) 1/2" Inch Thick ([12.7 mm])
 - 4) 1/4" Inch Thick ([6.35 mm])
 5. **Backing:** Aluminum foil [0.015 in (0.381 mm)], laminated to core.
 6. Panel Width: As indicated on drawings.
 7. Height: As indicated on drawings.
 8. Length: As indicated on drawings.
 9. **Frame:** Extruded aluminum, with concealed fasteners.
 10. **Frame Profile:** As indicated on drawings.
 11. **Frame Finish:** [Anodized, natural][Powder Coating].
 12. **Top Supported:** Aluminum track and ball bearing nylon rollers at top, aluminum track and nylon guide rollers at bottom.
 13. **Bottom Supported:** Aluminum track and nylon guide rollers at top, aluminum track and ball bearing nylon rollers at bottom.
 14. **Finger Pulls:** One pair per sliding panel.
 15. **Special-Purpose Graphics:** Apply graphics such as [semi-visible writing guides], [penmanship lines], [music staff lines], [1-inch (25 mm) grid] or [2-inch (50 mm) grid], [polar graph coordinates], [USA map], [world map], [soccer field], [football field], [basketball court], or other designated special graphics to the surface of the visual display unit, in the locations shown.

2.03 Sliding Tackboard Panels:

- A. **Material Facing:** [Vinyl][Fabric]
 1. **Options Available:**
 - a. Koroseal - Vinyl
 - b. Carnegie Xorel - Fabric
 - c. Guildford of Maine - Fabric
 - d. Maharam - Vinyl
 2. **Color and Pattern:** As selected from manufacturer's full range.
- B. **Core:** [1/4" Inch (6 mm) Natural Cork on 1/4" Inch (6 mm) MDF]
 1. **Alternate cores:**
 - a. 1/4" Inch (6 mm) Natural Cork on 1/4" Inch (6 mm) MDF

- b. 1/4" Inch (6 mm) Natural Cork on 1/4" Inch (6 mm) Hardboard
 - c. 1/2" Inch (12.7 mm) Fiberboard
- C. **Tackboards:** Forbo Bulletin Board Option
 - 1. **Options:** 1/4" Inch (6 mm) Forbo on 1/4" (6 mm) Inch MDF
 - a. **Alternate Options:**
 - 1) 1/4" Inch (6 mm) Forbo on 1/4" (6 mm) Inch MDF
 - 2) 1/4" Inch (6 mm) Forbo on 1/4" Inch (6 mm) Hardboard
 - b. **Color:** As indicated on drawings.
- D. **Accessories:** Provide magnetic marker tray. (Only on Markerboard or Chalkboard)
- E. **MATERIALS**
- F. Porcelain Enameled Steel Sheet: ASTM A424/A424M, Type I, Commercial Steel, with fired-on vitreous finish.
- G. Hardboard for Chalk Surface: ANSI A135.4 Tempered type.
- H. Vinyl-Coated Fabric: ASTM F793 Category VI.
- I. Forbo Bulletin Board: self-healing linoleum surface made from natural materials including linseed oil, resins, cork, and pigments.
- J. Plywood: PS 1 Grade C-D , softwood.
- K. Hardboard for Cores: ANSI A135.4, Class 1 - Tempered, S2S (smooth two sides).
- L. Particleboard: ANSI A208.1; wood chips, set with waterproof resin binder, sanded faces.
- M. Fiber Board: ASTM C208, cellulosic fiber board.
- N. Foil Backing: Aluminum foil sheet, 0.005 inch thick (0.13 mm thick).
- O. Aluminum Sheet Backing: 27 gauge, 0.014 inch (0.36 mm) thick.
- P. Steel Sheet Backing: 28 gauge, 0.0149 inch (0.38 mm), galvanized.
- Q. **ACCESSORIES**
- R. Marker Tray: Aluminum, manufacturer's standard profile
 - 1. Magnetic Tray: Aluminum, manufacturer's standard profile, molded ends, magnetic, same finish as frame.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.

3.02 **PREPARATION**

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 **INSTALLATION**

- A. Install boards in accordance with manufacturer's instructions.
- B. Secure units level and plumb.
- C. Mounting Brackets: [**Concealed**] [**Bonded to Wall**]

3.04 **CLEANING**

- A. Clean board surfaces in accordance with manufacturer's instructions.
- B. Remove temporary protective cover at Date of Substantial Completion.

END OF SECTION