

SECTION 101100
VISUAL DISPLAY UNITS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Porcelain Markerboard Wall.
- B. Chalkboard Marker Wall.

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.

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 wall elevations, dimensions, joint locations.
 - 1. Indicate panel joint locations, including field-assembled joints for factory units exceeding shipping size, if applicable.
- C. Samples: Color charts for selection of color and texture of Marker Wall.
- D. Samples: Two, 10" by 10" inches (254 by 254 mm) in size illustrating materials and finish, color and texture of Marker Wall.
- E. Manufacturer's printed installation instructions.
- F. Manufacturer's Qualification Statement.

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 Life Time warranty for Marker Wall to include warranty 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 markerboards.
- C. When properly installed per manufacturer instructions, Marker Walls 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://www.nelsonadamsnaco.com>

2.02 MARKER WALL

- A. **Marker Wall:** The markerwall consists of e3 porcelain on 1/2" particle board with moisture barrier backer, and satin clear anodized aluminum C4-trim. Magnetic tray & Map rail provided at an additional cost.
 - 1. **Markerboard Color:** [White]
 - 2. **Markerboard Gloss:** [High][Low] gloss.
 - 3. **Chalkboard Color:** [Green][Black]
 - 4. **Steel Face Sheet Thickness:** 24 gauge, 0.0239 inch (0.61 mm).
 - 5. **Core:** [Particleboard], [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])
 - 6. **Backing:** Aluminum foil, [0.015 in (0.381 mm)] laminated to core.
 - 7. **Panel Width:** 48 inches (1220 mm).
 - 8. **Height:** Full height of wall; no horizontal seams.
 - 9. **Length:** Full length of wall.
 - 10. **Mounting Method:** [Fastened Directly to Wall][Glued Directly to Wall]
 - 11. **Aluminum Frame:** Provide metal J-mold type edge trim for exposed edges at door and window openings and similar conditions.
 - a. Trim fabricated from not less than [0.062" inch (1.57 mm)] thick, extruded aluminum.
 - 12. **Aluminum Finish:** [Clear Anodize][Powder Coating]

- a. Color: As selected by architects from full range of manufacturers standards colors and density.
- 13. **Adhesives:** Manufacturer's recommended adhesive for substrate indicated on drawings.

2.03 MATERIALS

- A. Porcelain Enameled Steel Sheet: ASTM A424/A424M, Type I, Commercial Steel, with fired-on vitreous finish.
- B. Hardboard for Chalk Surface: ANSI A135.4 Tempered type.
- C. Hardboard for Cores: ANSI A135.4, Class 1 - Tempered, S2S (smooth two sides).
- D. Particleboard: ANSI A208.1; wood chips, set with waterproof resin binder, sanded faces.
- E. Fiber Board: ASTM C208, cellulosic fiber board.
- F. Foil Backing: Aluminum foil sheet, 0.015 inch thick (0.381 mm thick).
- G. Adhesives: Type used by manufacturer.

2.04 ACCESSORIES

- A. **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 Method: [Fastened Directly to Wall][Glued Directly 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