

DDS Markerboard Specifications

DIVISION 10 - SECTION 10100 - VISUAL DISPLAY BOARDS

PART 1 -GENERAL

1.01 DESCRIPTION OF WORK

- A. Section Includes:
 1. Porcelain enamel chalkboards
 2. 10 year coated markerboards – non-magnetic
 3. 10 year coated markerboards – magnetic
 4. Chalkboard Conversion Skins – Magnetic and non-magnetic
 - 4 Tackboards
 5. Field-Assembled Trim

1.02 REFERENCED STANDARDS

- A. American Society for Testing Materials
 1. ASTM-E 84 Standard Test Method for Surface Burning Characteristics for Building Materials
 2. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wires, Profiles and Tubes.

1.03 SUBMITTALS

- A. Shop Drawings: Provide shop drawings for each type of visual display board required.
- B. Product Data: Provide technical data for materials specified. Include Material Safety Data Sheets, when applicable.
- C. Manufacturer's Instructions: Provide Manufacturer's installation instructions.
- D. Samples: Provide samples of the complete cross section of the marker including the surface, substrate and backing

1.04 QUALITY ASSURANCE

- A. Provide all items in this section as manufactured by: Digital Designed Solutions, Inc.; 618 Wilkerson Road, Rock Hill, SC 29730; 803-329-9682 Fax: 803-329-9685
- B. Operation and Maintenance: Include data on regular cleaning, stain removal, and precautions.

1.05 PROJECT CONDITIONS

- A. Field measure prior to preparation of shop drawings and fabrication to ensure proper fit.
- B. All areas that will have visual display boards shall be stored and installed after the building has been climatized as to Temperature and humidity. Markerboards to be installed on masonry walls shall be foiled backed.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Ordering: Order boards in time to meet construction schedules.
- B. Delivery: Deliver materials in original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to weather. Store in temperature and humidity recommended by the manufacturer.

1.07 WARRANTY

- A. Submit a warranty, stating that under normal usage and maintenance, and when installed in accordance with manufacturer's instructions and recommendations, Digital Dimensional Stone markerboards are guaranteed for 5 years. The warranty shall be limited to the replacement of defective boards. Warranty shall not include cost of removal or reinstallation.
- B. Submit a standard warranty, stating when installed in accordance with manufacturer's instructions and recommendations, Digital Dimensional Stone tackboards are guaranteed for one year against defects in materials and workmanship. Guarantee does not cover normal wear and tear, improper handling, any misuse, or any defects caused by vandalism or subsequent abuse. Guarantee covers replacement of defective material but does not include cost of removal or reinstallation.
- C. Writing Surface Warranty Period: 10 - years commencing on Date of Substantial Completion for both magnetic and non-magnetic markerboards

PART 2 - PRODUCTS**2.01 MANUFACTURERS**

A. Markerboard Manufacturer: Digital Designed Solutions, Inc. 618 Wilkerson Road Rock Hill, SC 29730; telephone: 803-329-9682
 Fax: 803-329-9685 Website: www.murerase.com Email: info@murerase.com

2.02 MATERIALS

A. DDS Markerboards: Coated steel shall be guaranteed for 5 years against ghosting.

1..DDS Magnetic Markerboards:

- a. Face Sheet: (Specify .023" Murerase coated steel)
- b. Core Material: (Specify 1/4" Hardboard; 7/16" MDF; 7/16" particle Board).
- c. Backing: (Specify 0.001" Aluminum Foil for hardboard or particle board, or filled backer for MDF when required)
- d. Lamination: shall be PSA applied over 95% of the surface and shall have uniform pressure applied mechanically over the entire area.
- e. Size: (As indicated on Drawings.).

2. DDS Non-Magnetic Markerboards:

- a. Face Sheet: (Specify 1/4" or 1/2" Murerase coated MDF)
- b. Core Material: (Specify 1/4" Hardboard; 1/2" MDF).
- c. Backing: (Specify 0.001" Aluminum Foil for hardboard, or filled backer for MDF)
- d. Size: (As indicated on Drawings.).

B. DDS Tackboards:

1. DDS Cork with hardboard back:

- a. Face sheet: 1/4" thick burlap backed cork
- b. Core Material: 1/4" thick hardboard
- c. Lamination: shall be applied over 95% of the surface and shall have uniform pressure applied mechanically over the entire surface
- d. Size: (As indicated on Drawings.).
- e. Trim: Tackboards are framed with 1/2" aluminum channel without a chalkrail (unless specified)

2. DDS Forbo Cork with hardboard back:

- a. Face Sheet: 1/4" Forbo synthetic cork in color as specified.
- b. Core Material: 1/4" thick hardboard
- c. Lamination: shall be applied over 95% of the surface and shall have uniform pressure applied mechanically over the entire surface
- d. Size: (As indicated on Drawings.).
- e. Trim: Tackboards are framed with 1/2" aluminum channel without a chalkrail (unless specified)

C. DDS Chalkboard Conversion Skins:

1. DDS Magnetic (steel) Conversion Skin:

- a. Sheet: .023" Murerase coated steel
- b. Adhesive System: PSA preapplied to the back of the sheet to be used in combination with an approved on site adhesive.

2. DDS Non-Magnetic Conversion Skin

- a. Sheet: 1/8" hardboard with Murerase coating
- b. Adhesive System: PSA preapplied to the back of the sheet to be used in combination with an approved on site adhesive.

D. DDS Aluminum or Wood Framing for Markerboards and Tackboards:

1. DDS anodized brushed aluminum framing trim: Specify 1/4" or 1/2".
OR DDS clear finished maple framing for 1/2" thick boards only.
2. Chalkrail: 2 1/4" blade type chalkrail OR 2 3/4" box type chalkrail with molded end caps. (Chalkrails are included with every DDS Markerboard unless specified; no chalkrails with DDS Tackboards unless specified)
3. Maprail: Specify 1" or 2" wide maprail. Standard rail has 1/4" natural cork inserts to be installed after maprail is installed. (Specify Forbo cork if required). All maprail comes with 2 end caps per 8 lineal feet of rail. (Specify total length unless each markerboard and/or tackboard has maprail as shown on the drawings.

2.03 SHOP FABRICATION AND ASSEMBLY

- A. Framing: All framing components are thru riveted and include adhesive internal to the framing
- B. Chalkrail: Chalkrail is thru riveted and includes adhesive internal to the frame.
- C. Hanging Brackets: Hanging brackets are to be supplied at a rate of one package of 4 brackets per 4 lineal feet of Markerboard or Tackboard. Fasteners, plastic inserts and attachment screws are included. If fastening into light gauge metal framing, substitute approved self drilling screws for metal framing

PART 3 – EXECUTION

3.01 PROJECT CONDITIONS

- A. Verify before installation that interior moisture and temperature approximate normal occupied conditions.
- B. Verify that wall surfaces are prepared and ready to receive boards.

3.02 DELIVERY

- A. Deliver factory built units completely assembled and of dimensions shown in details and in accordance with manufacturer's shop drawings as approved by the architect.
- B. Follow manufacturer's instructions for storage and handling of units before installation.

3.03 INSTALLATION

A. Framed Markerboards and Tackboards:

1. Install level and plumb, keeping perimeter trim straight in accordance with manufacturer's recommendations.
2. Install using Hanging Brackets provided plus auxillary fastening or adhesive as required by job conditions. Contact DDS technical service for additional requirements as required.
3. The installation details provided by DDS are part of this specification and should be used as the details of installation of framed boards

B. Chalkboard Conversion Skins:

1. Both magnetic and non-magnetic Chalkboard Conversion Skins are installed in accordance with the installation instructions to be used as a part of this specifications.
2. If Conversion Skins are to be installed over warped or bowed chalkboards, the chalkboards are to be refastened to the wall.
3. If the surface of the chalkboard has deteriorated, install a Conversion Skin using the peel and stick tape AND the approved adhesive. Allow the Skin to sit for at least 24 hours and test the bond and the cohesive strength of the chalkboard. The manufacturer will supply sample panels of Skin for this test.