

Part 1 General

1.1 SECTION INCLUDES

- .1 White boards.
- .2 Trim, rail, and accessories.

1.2 REFERENCES

- .1 ANSI A208.1-2009 - Particleboard.
- .2 ASTM A424/A424M-09a - Standard Specification for Steel, Sheet, for Porcelain Enameling.
- .3 ASTM A653/A653M-13 - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- .4 ASTM B221-13 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- .5 ASTM C209-12 - Standard Test Methods for Cellulosic Fiber Insulating Board.
- .6 ASTM E84-13a - Standard Test Method for Surface Burning Characteristics of Building Materials.
- .7 CAN/CSA A247-M86(R1996) - Insulating Fibreboard.
- .8 CAN/ULC S102-10 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
- .9 Porcelain Enamel Institute.
 - .1 Performance Specifications for Porcelain Enamel Chalkboards.
 - .2 PEI-104 for Porcelain Enameling.

1.3 SUBMITTALS FOR REVIEW

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.
- .3 Samples:

- .1 Submit two 300 mm x 300 mm samples each of white board illustrating materials and finish, colour and texture of white board, core and backing materials, trim and the following:
 - .1 Each sample shall indicate trim details and fabrication at the corners.
 - .2 Each sample shall contain a full splice butt joint representative of manufacturer's recommended field technique.
- .2 Submit one 200 mm long section of marker rail.

1.4 DELIVERY, STORAGE, AND PROTECTION

- .1 Protect pre-finished surfaces with wrapping.
- .2 Deliver material in original, undamaged and unopened wood crates or pallets.
- .3 Store material in dry areas and protected from exposure to weather.

1.5 COORDINATION

- .1 Coordinate the Work with installation of wall outlets and switches that are within the wall space for Work of this section.

1.6 OPERATION AND MAINTENANCE DATA

- .1 Maintenance Data: Include data on regular maintenance cleaning, stain removal.

1.7 WARRANTY

- .1 Provide a five year warranty to include coverage for failure to meet specified requirements.
- .2 Warranty: Include coverage of white board surfaces from discolouration due to cleaning, crazing or cracking, staining, warping.

Part 2 Products

2.1 MANUFACTURERS

- .1 Acceptable Manufacturers:
 - .1 Canadian Blackboard Co. Ltd. Futura Series 300
 - .2 Delta Products Ltd. Series 300.

2.2 WHITE BOARDS

- .1 Materials:

- .1 Sheet Steel Facing: Commercial grade to ASTM A424 or A653/A653M, with G90 commercial galvanize zinc finish to Z275, magnetic.
- .2 Core: one of the following:
 - .1 Fiberboard panel in accordance with ASTM C209 or CAN/CSA A247.
 - .2 Particleboard panel in accordance with ANSI A208.1.
- .3 Backing: Manufacturer's standard backing.
- .4 Laminating and Mounting Adhesives: Urea-formaldehyde free; site applied adhesives shall be VOC compliant.
- .5 Joint Reinforcement: mechanical joint system to provide straight, rigid, continuously supported, tight butt, flush joints at similar surface.
- .6 Anchor Clips, Brackets and Fasteners: Concealed type recommended by manufacturer.
- .2 Trim and Framing:
 - .1 Aluminum Trim and Framing Fabrication: Extruded aluminum alloy AA-6063-T5.
 - .2 Provide moulding for perimeter, double wall heavy-duty marker tray with end caps and map rail with end stops.
- .3 Finishes:
 - .1 Porcelain Enamel: Manufactured in accordance with Porcelain Enamel Institute PEI-104 standard for durability, smoothness of texture, colour continuity.
 - .1 Gloss factor of 6-8 when measured at 45 degrees.
 - .2 Finish for use with dry erase or wet erase marker and suitable as projection screen
 - .3 Colour: White
 - .2 Trim and Framing Finish: Clear anodic coating complying with Aluminum Association requirements for Class II Architectural Coating AA-A31.
- .4 Fabrication:
 - .1 Fabricate white board to sizes indicated on drawings.
 - .2 Factory laminate panels consisting of facing sheet with core panel and manufacturer's standard backing. Total thickness of panel to be 13 mm.
 - .3 Make finish panels flat and rigid.
 - .4 Fit joint reinforcement between abutting boards except where trim is required between tack board and white board.
 - .5 Apply permanent printed images for musical staff and graph for music room installations, as indicated.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify dimensions, tolerances, and method of attachment with other work.
- .2 Verify that internal wall blocking is ready to receive work and positioning dimensions are as indicated on shop drawings.

3.2 INSTALLATION

- .1 Install boards in accordance with manufacturer's instructions, plumb and level, provide rigid, secure writing surface.
- .2 Install trim and framing around panels, make miters and intersection joints to hairline fit, free of rough edges.
- .3 Use concealed brackets to reinforce and hold joints tight and flush. No exposed fasteners permitted.
- .4 Mechanical attachment:
 - .1 Concrete or solid masonry; use lag screw and expansion bolts or screws and fiber plugs as required.
 - .2 Hollow masonry; use toggle bolts or equivalent hollow back-up fastening device.
 - .3 Wood or metal framing; use screws. Secure into framing members in stud walls.

3.3 CLEANING

- .1 Remove protective material from surfaces.
- .2 Clean white board surfaces in accordance with manufacturer's written instructions, then cover surfaces with protective cover, taped to frame.
- .3 Remove temporary protective cover at date of Interim Completion.

3.4 PROTECTION OF FINISHED WORK

- .1 Protect finished Work from damage.

END OF SECTION