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**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**