

**PART 1 General****1.1 SUBMITTALS**

- .1 Comply with the requirements of Section 01 33 00.
- .2 Shop Drawings: Indicate types, sizes, panel arrangements, backing materials, hardware, anchor and mounting details and frame details.
- .3 Samples: Submit duplicate 300 x 300 mm (12" x 12") samples of whiteboard and 300 mm (12") long samples of frame.

**1.2 PRODUCT DELIVERY, STORAGE AND HANDLING**

- .1 Protect finished surfaces from damage while in transit, storage and handling.

**PART 2 Products****2.1 MATERIALS**

- .1 Porcelain Enamel Whiteboards: Balanced, high pressure laminated, porcelain enamel boards of 3 ply construction consisting of face sheet, core material, and backing.
    - .1 Face Sheet: Minimum 0.64 mm (24 ga. (0.025")) enamelling grade steel specifically processed for temperatures used in coating porcelain on steel to manufacturers standard process, and as follows:
      - .1 Coat exposed face and edges with a 3-coat process consisting of primer, ground coat, and colour cover coat.
      - .2 Coat concealed face with a 2-coat process consisting of primer and ground coat.
    - .2 Cover Coats: Use manufacturer's standard materials and as follows:
      - .1 Whiteboards: Provide manufacturer's standard, light coloured, special writing surface with gloss finish intended for use with erasable dry markers.
    - .3 Core: Use any one of the following core materials to the manufacturer's standard:
      - .1 10 mm (3/8") thick, particleboard core material complying with requirements of ANSI A208.1, Grade 1 M 1.
      - .2 6 mm (1/4") thick, tempered hardboard.
      - .3 13 mm (1/2") gypsum board.
    - .4 Backing Sheet: Use any one of the following core materials to the manufacturer's standard:
      - .1 0.38 mm (0.015") thick, aluminum sheet backing.
      - .2 0.127 mm (0.005") thick, aluminum foil sheet backing.
      - .3 0.48 mm (26 ga. (0.019")) thick, galvanized steel sheet backing.
    - .5 Laminating Adhesive: Manufacturer's standard, moisture resistant, thermoplastic type adhesive.
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- .2 Trim: Extruded from aluminum alloy 6063 T5. Clear anodized finish in accordance with AA M12C22A31, full length for each installation.
- .3 Marker trays: Manufacturer's standard, plate type, extruded aluminum with clear anodized anodic oxide finish in accordance with AA M12C22A31, full length for each installation.
- .4 Finish: Colour as selected from manufacturer's standard range.

## **2.2 FABRICATION**

- .1 Shop fabricated whiteboards in one piece for lengths 3,658 mm or less. For longer sections, colour match adjacent pieces.
- .2 Laminate whiteboard and backing sheet to the core in accordance with the whiteboard manufacturer's recommendations. Colour match adjacent whiteboards.
- .3 Apply pre-finished trim.

## **PART 3 Execution**

### **3.1 INSTALLATION**

- .1 Ensure adequate in-wall backing has been installed in correct locations for securing whiteboards before beginning installation.
- .2 Install whiteboards to location indicated, rigid, secure and plumb in accordance with manufacturer's instructions.
- .3 Install whiteboards at same height as top of doorframe.

### **3.2 CLEANING**

- .1 Clean surfaces after completion of installation to manufacturer's recommendations.

**END OF SECTION**

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**PART 1      General****1.1          REFERENCES**

- .1 American Society for Testing and Materials (ASTM):
  - .1 ASTM A153/A153M04 Standard Specification for Zinc Coating (HotDip) on Iron and Steel Hardware
  - .2 ASTM A16799(2004), Stainless Steel and HeatResisting ChromiumNickel Steel Plate, Sheet and Strip
  - .3 ASTM A653/A653M04a, Standard Specification for Steel Sheet, ZincCoated (Galvanized) or ZincIron AlloyCoated (Galvannealed) by the HotDip Process
  - .4 ASTM A66603 Standard Specification for Annealed or ColdWorked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
  - .5 ASTM A1008/1008M04b, Standard Specification for Steel, Sheet, ColdRolled, Carbon, Structural, HighStrength LowAlloy and High Strength LowAlloy with Improved Formability.
  - .6 ASTM B456/B456M03, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
  - .7 ASTM F44685(2004)e1, Standard Consumer Safety Specification for Grab Bars and Accessories Installed in the Bathing Area.
- .2 Canadian General Standards Board (CGSB):
  - .1 CAN/CGSB12.5M86, Mirrors, Silvered

**1.2          SUBMITTALS**

- .1 Provide the following submittals in accordance with Section 01 33 00.
    - .1 Product Data: Include construction details, material descriptions and thicknesses, dimensions, profiles, fastening and mounting methods, specified options, and finishes for each type of accessory specified.
    - .2 Setting Drawings: For cut outs required in other work; include templates, substrate preparation instructions, and directions for preparing cut outs and installing anchoring devices.
  - .2 Maintenance Data: For accessories to include in maintenance manuals specified in 01 78 25 – Operations and Maintenance Data Manuals:
    - .1 Provide lists of sources for disposable supplies, replacement parts and service recommendations.
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**PART 2 Products****2.1 MATERIALS**

- .1 Stainless Steel: ASTM A666, Type 304, with No. 4 finish (satin), in 0.80 mm (22 ga. (0.028")) minimum nominal thickness, unless otherwise indicated.
- .2 Sheet Steel: ASTM A1008, cold rolled, commercial quality, 0.95 mm (0.038" (20 ga.)) minimum nominal thickness; surface preparation and metal pretreatment as required for applied finish.
- .3 Galvanized Steel Sheet: ASTM A653/A653M, G60 (Z180).
- .4 Chromium Plating: ASTM B456, Service Condition Number SC 2 (moderate service), nickel plus chromium electro-deposited on base metal.
- .5 Baked Enamel Finish: Factory applied, gloss white, baked acrylic enamel coating.
- .6 Mirror Glass: CAN/CGSB 12.5 M86, Type I, Class 1, Quality q2, nominal 6 mm (¼") thick, with silvering, electroplated copper coating, and protective organic coating.
- .7 Galvanized Steel Mounting Devices: ASTM A153/A153M, hot dip galvanized after fabrication.
- .8 Fasteners: Screws, bolts, and other devices of same material as accessory unit, tamper and theft resistant when exposed, and of galvanized steel when concealed.

**2.2 FABRICATION**

- .1 Surface Mounted Toilet Accessories: Unless otherwise indicated, fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with continuous stainless steel hinge. Provide concealed anchorage where possible.
- .2 Recessed Toilet Accessories: Unless otherwise indicated, fabricate units of all welded construction, without mitered corners. Hang doors and access panels with full length, stainless steel hinge. Provide anchorage that is fully concealed when unit is closed.
- .3 Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

**PART 3 Execution****3.1 INSTALLATION**

- .1 Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
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- .2 Secure mirrors to walls in concealed, tamper resistant manner with special hangers, toggle bolts, or screws. Set units level, plumb, and square at locations indicated, according to manufacturer's written instructions for substrate indicated.
- .3 Install grab bars to withstand a downward load of at least 1.1 kN (250 lbf), when tested according to method in ASTM F446.

### 3.2 ADJUSTING AND CLEANING

- .1 Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items.
- .2 Remove temporary labels and protective coatings.
- .3 Clean and polish exposed surfaces according to manufacturer's written recommendations.

### 3.3 TOILET AND BATH ACCESSORY SCHEDULE

- .1 Provide following Washroom Accessories. Refer to Drawings for required quantities and locations.

Shower Seat: wall mounted folding stainless steel.

Non Ligature Grab Bars; 38 mm diameter x 1.6 mm wall] tubing of [stainless steel, 76 mm diameter wall flanges, concealed security screw attachment, flanges welded to tubular bar, provided with steel back plates and all accessories. Knurl bar at area of hand grips. Grab bar material and anchorage to withstand downward pull of 2.2 kN Shelf.

Shower Rod: break-away type, 38 mm diameter x 2 mm wall thickness stainless steel tubing of required length with satin stainless steel flanges Shower rod material and anchorage to withstand downward pull of 0.9 kN;

Robe hook: stainless steel with 75 mm projection; anti-suicide type

Safety Mirror: wall mounted unit, fixed. 12.5, stainless steel frame, 6 mm thick polished stainless steel mirror

Soap dispenser: liquid push-in valve 102 mm spout, self contained 340 mL translucent polyethylene 1.5 L tank, stainless steel piston and valve assembly, tamper proof filler lock, surface mounted, exposed metal components chrome plated

Combination towel dispenser/waste receptacle: semi-recessed wall unit, approximately 430 mm wide, 1220 mm high, 190 mm deep. Interior of 0.8 mm galvanized steel, exterior of 0.8 mm stainless steel. Suitable for dispensing folded or roll paper towels. Removable galvanized steel waste receptacle, lockable access door with continuous full height stainless steel hinge

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Toilet tissue dispenser: double roll type, surface mounted, stainless steel frame, capacity of 500 double ply roll, roll under spring tension for controlled delivery

Grab bars: 32 mm diameter x 1.6 mm stainless steel, 76 mm diameter wall flanges, concealed screw attachment, flanges welded to tubular bar, provided with steel back plates and all accessories. Knurl bar at area of hand grips. Grab bar material and anchorage to withstand downward pull of 2.2 kN Shelf.

Shelf: surface mounted, 200mm deep, 400mm wide, stainless steel

**END OF SECTION**