

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.

1.2 SHOP DRAWINGS AND PRODUCT DATA

- .1 Submit shop drawings, product data and catalogue illustrations in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate materials, thicknesses, sizes, finishes, colours, construction details, removable and interchangeable components, mounting methods and schedule of signs.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Aluminum: 5052 Alloy.
- .2 Welding materials: to CSA W59.
- .3 Solder: to ASTM B32, Type Sn50.
- .4 Adhesives, paints, sealants and solvents for sheet: type recommended by sheet manufacturer for applicable condition.
- .5 Acrylic top-coat: clear, non-yellowing, exterior grade, satin finish, acrylic polyester resin protective coating, compatible with metal surface of type recommended by sheet manufacturer.
- .6 Bituminous paint: to MPI EXT 5.4D.

2.2 CUT-OUT LETTERS

- .1 Flat Cut-Out metal letters from aluminum sheet.
- .2 Sizes and letters: Letters sized to be 356, 200 or 125mm, as indicated on exterior elevations. Font to be Helvetica.
- .3 Finish: Aluminum – Clear Anodized, 6061 Alloy, bead-blasted returns process meets A43 Aluminum Architectural grad anodized finish (8.1mm) no clear coat.
- .4 Mounting: stud mounted into wood cladding, 13mm metal spacer sleeve offset.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Erect and install letters plumb and level as per the drawings.
- .2 Mechanical attachment, as per manufacturer's written instructions, specific to wall type at letter locations.
- .3 Allow for thermal movement without distortion of components.
- .4 Exposed fasteners are not permitted.

3.2 CLEANING

- .1 Leave signs clean.
- .2 Touch up any damaged finishes.

End of Section

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.

1.2 REFERENCES

All reference standards shall be current issue or latest revision at the date of building permit issue. This specification refers to the following standards, specifications or publications:

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A 167, Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM B 456, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
 - .3 ASTM A 653/A653M, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .4 ASTM A 924/A924M, Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.81, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB-1.88, Gloss Alkyd Enamel, Air Drying and Baking.
 - .4 CGSB 31-GP-107Ma, Non-inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
- .3 Canadian Standards Association (CSA)
 - .1 CAN/CSA-B651, Barrier-Free Design.
 - .2 CAN/CSA-G164, Hot Dip Galvanizing of Irregularly Shaped Articles.

1.3 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame, and building-in details of anchors for grab bars.

1.4 CLOSEOUT SUBMITTALS

- .1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.5 EXTRA MATERIALS

- .1 Provide special tools required for accessing, assembly/disassembly or removal for toilet and bath accessories in accordance with requirements specified in Section 01 78 00 - Closeout Submittals.
- .2 Deliver special tools to City.

PART 2 - PRODUCTS

2.1 COMPONENTS

- .1 Toilet tissue dispenser: surface mounted, dual coreless jumbo roll, 22 gauge stainless steel.
 - .1 Acceptable material: Bradley 5426-11.
- .2 Security towel hook: 14 gauge stainless steel backplate with satin finish and tamper resistant mounting screws. Stainless steel safety hook with pivoting ball joint that releases when more than 20 lbs of force is applied.
 - .1 Acceptable materials: Bradley SA36, Bobrick B-983.
- .3 Hand Dryer: 22 gauge satin finish stainless steel cover, automatic operation.
 - .1 Acceptable materials: Bradley 2902-287400, Bobrick B-7128.
- .4 Sanitary Napkin Disposal: surface mounted, satin finish stainless steel
 - .1 Acceptable material: Bradley 4781-15, Bobrick B-270

- .5 Mirrors: 20 gauge bright annealed stainless steel c/w tamper resistant mounting screws
 - .1 Acceptable material: Bradley, 7481 series 610mm x 915mm.
- .6 Soap Dispenser: surface mounted vertical type, 20 gauge stainless steel construction
 - .1 Acceptable material: Bradley 6562, Bobrick B-2111
- .7 Grab Bars: 32mm x 915mm and 32mm x 610mm concealed mounted grab bar: wall tubing stainless steel, 76 mm diameter wall flanges, concealed screw attachment, flanges welded to tubular bar, provided with steel back plates and all accessories. Grab bar material and anchorage to withstand downward pull of 2.2 kN. Check drawings for length, degree of slope, bends and locations.
 - .1 Acceptable material: Bradley 832 series, Bobrick B-5806 series
- .8 Mop and Broom Holder: Type 304 stainless steel, 915mm wide, satin finish with spring loaded, rubber cam, anti slip mop holders.
 - .1 Acceptable material: Bradley 9953, Bobrick B-223 x 36
- .9 Waste Receptacle: 22 gauge stainless steel, 356mm wide x 457mm high x 152mm deep, 6.5 gallon capacity. Fasten to wall with tamper resistant mounting screws. Provide vinyl liner.
 - .1 Acceptable material: Bradley 357, Bobrick B-279

2.3 FABRICATION

- .1 Weld and grind joints of fabricated components flush and smooth. Use mechanical fasteners only where approved.
- .2 Wherever possible form exposed surfaces from one sheet of stock, free of joints.
- .3 Brake form sheet metal work with 1.5 mm radius bends.
- .4 Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
- .5 Back paint components where contact is made with building finishes to prevent electrolysis.
- .6 Hot dip galvanize concealed ferrous metal anchors and fastening devices to CSA G164.
- .7 Shop assemble components and package complete with anchors and fittings.
- .8 Deliver inserts and rough-in frames to job site at appropriate time for building-in. Provide templates, details and instructions for building in anchors and inserts.
- .9 Provide steel anchor plates and components for installation on studding and building framing.

2.4 FINISHES

- .1 Chrome and nickel plating: to ASTM B 456, satin finish.
- .2 Baked enamel: condition metal by applying one coat of metal conditioner to CGSB 31-GP-107Ma, apply one coat Type 2 primer to CAN/CGSB-1.81 and bake, apply two coats Type 2 enamel to CAN/CGSB-1.88 and bake to hard, durable finish. Sand between final coats. Colour selected from standard range by Contract Administrator.
- .3 Manufacturer's or brand names on face of units not acceptable.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Install and secure accessories rigidly in place as follows:
 - .1 Masonry walls: install as per manufacturer's recommendation.
- .2 Use tamper proof screws/bolts for fasteners.
- .3 Fill units with necessary supplies shortly before final acceptance of building.

3.2 SCHEDULE

- .1 Toilet tissue dispenser: one per toilet fixture.

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- .2 Security towel hook: one per washroom, one in janitor closet.
 - .3 Hand Dryer: one per washroom.
 - .4 Napkin Receptacle: one per washroom.
 - .5 Mirror: one per sink.
 - .6 Soap Dispenser: one per sink.
 - .7 Grab bars: one 610mm and two 915mm per toilet fixture.
 - .8 Mop and Broom Holder: one per janitor room.
 - .9 Waste Receptacle: one per washroom.

End of Section

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 01 78 00 - Closeout Submittals.

1.2 REFERENCES

All reference standards shall be current issue or latest revision at the date of building permit issue. This specification refers to the following standards, specifications or publications:

- .1 American National Standards Institute (ANSI)
 - .1 ANSI/NFPA 10, Portable Fire Extinguishers.
- .2 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S508, Rating and Fire Testing of Fire Extinguishers and Class "D" Extinguishing Media.

1.3 SHOP DRAWINGS AND PRODUCT DATA

- .1 Submit shop drawings and product data in accordance with Section 01 33 00 - Submittal Procedures.

1.4 CLOSEOUT SUBMITTALS

- .1 Provide maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

PART 2 - PRODUCTS

2.1 MULTI-PURPOSE DRY CHEMICAL EXTINGUISHERS

- .1 Stored pressure rechargeable type with hose and shut-off nozzle, ULC labeled for A, B and C class protection. Size 4.5 kg.

2.2 EXTINGUISHER BRACKETS

- .1 Type recommended by extinguisher manufacturer.

2.3 IDENTIFICATION

- .1 Identify extinguishers in accordance with recommendations of ANSI/NFPA 10.
- .2 Attach tag or label to extinguishers, indicating month and year of installation. Provide space for service dates.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Install or mount extinguishers in cabinets or on brackets as indicated.

End of Section

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 03 30 00 - Cast-in-Place Concrete.

1.2 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.

PART 2 - PRODUCTS

2.1 FLOOR GRILLE

- .1 Floor Grille: 1" x 1.5" serrated aluminum T extrusion. Size: 1220mm x 1220mm.
Standard of Acceptance: FG-5 floor grille as manufactured by K.N.Crowder mfg. Inc.
- .2 Pan Frame: 2.25" deep, 20 ga galvanized steel, thin border pan.
Standard of Acceptance: Frame Type GA evaporating pan as manufactured by K.N.Crowder mfg. Inc.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Assemble and install floor grille in accordance with manufacturer's written instructions.
- .2 Coordinate installation with concrete installation.

End of Section