

**Part 1 General****1.1 REFERENCES**

- .1 ASTM International
  - .1 ASTM A 167-99(2009), Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip
  - .2 ASTM B 456-03, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
  - .3 ASTM A 653/A 653M-09, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  - .4 ASTM A 924/A 924M-09, 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-M90, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
  - .2 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
  - .3 CGSB 31-GP-107MA-90, Non-inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
- .3 CSA International
  - .1 CAN/CSA-B651-04, Accessible Design for the Built Environment.
  - .2 CAN/CSA-G164-M92 (R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.

**1.2 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide submittals in accordance with Division 1 Submittal Procedures.
- .2 Product Data:
  - .1 Provide manufacturer's printed product literature and data sheets and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
  - .1 Submit drawings stamped and signed by professional engineer registered or licensed in the Province of Ontario, Canada.
  - .2 Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame, building-in details of anchors for grab bars.
- .4 Samples:
  - .1 Submit samples for In accordance with Division 1 Submittal Procedures.
  - .2 Samples will be returned for inclusion into work.

**1.3 CLOSEOUT SUBMITTALS**

- .1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Division 1 Closeout Submittals.

**1.4 MAINTENANCE MATERIAL SUBMITTALS**

- .1 Tools:
  - .1 Provide special tools required for assembly, disassembly or removal for toilet and bath accessories in accordance with requirements specified in Division 1 Closeout Submittals.
  - .2 Deliver special tools to Departmental Representative.

**1.5 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
  - .1 Store materials off ground, indoors, in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect toilet and bathroom accessories from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.

**Part 2 Products****2.1 MATERIALS**

- .1 Sheet steel: to ASTM A 653/A 653M with ZF001 designation zinc coating.
- .2 Stainless steel sheet metal: to ASTM A 167, unless otherwise indicated Type 304, with satin finish.
- .3 Stainless steel tubing: Type 304, commercial grade, seamless welded 1.2 mm wall thickness.
- .4 Fasteners: concealed screws and bolts hot dip galvanized, exposed fasteners to match face of unit. Expansion shields fibre, lead or rubber as recommended by accessory manufacturer for component and its intended use.

**2.2 FINISHES**

- .1 Chrome and nickel plating: to ASTM B456-85, satin finish.
- .2 Manufacturers or brand names on face of units are not acceptable.

**2.3 COMPONENTS**

- .1 **For the Barrier-free Watercloset:**
  - .1 Hands-free Soap Dispenser (SD): Deb Touch-Free Ultra Foam Dispenser, Stock Code TBK1LDS, with 1-litre cartridge.
    - .1 Provide two (2) cases of refills for each dispenser. Product: Deb InstantFOAM foam handwash.
    - .2 Include supply & delivery of battery charger and four (4) rechargeable batteries for each dispenser plus four (4) extra
  - .2 Semi recessed paper towel & waste Disposal - Frost 422A-70 Hands free paper towel Dispenser with bin. Provide accessible electrical receptacle within wall cavity for AC adapter.
  - .3 Coat hook - Brizo single robe hook, model: ODIN, Colour: Luxe gold, mounted at 1200mm above finished floor at rear of door.

- .4 Toilet Tissue dispenser- Bobrick model B-2892, stainless steel, or approved equivalent.
- .5 Grab bars: Frost Products 1001 Series, 32mm o.d., stainless steel, 760 mm long and 600 mm horizontal grab bars. Concealed fasteners, peened grip surface. Grab bar material and anchorage to withstand downward pull of 2.2kN, or approved equivalent.
- .6 Recessed Sanitary Disposal Receptacle: Satin-finish stainless steel. Seamless beveled flange. Frost Model 633-2, or preapproved equivalent.
- .7 Mirror: Custom frameless mirror, 306mm wide x 1535mm high bevel edges, attached by clips.
- .8 Duress alarm button: Inovonics, model EN121EOL. To be mounted at 120mm AFF.

## .2 For each standard Water Closet:

- .1 Coat hook - Brizo single robe hook, model: ODIN, Colour: Luxe gold, mounted at 1200mm above finished floor at rear of door\_
- .2 Toilet Tissue dispenser- Bobrick model B-2892, stainless steel., or approved equivalent.
- .3 Recessed Sanitary Disposal Receptacle: Satin-finish stainless steel. Seamless beveled flange. Frost Model 633-2, or preapproved equivalent.
- .4 Duress alarm button: Inovonics, model EN121EOL. To be mounted at 120mm AFF.

## .3 For Open Area:

- .1 Semi recessed paper towel & waste Disposal - Frost 422A-70 Hands free paper towel Dispenser with bin. Provide accessible electrical receptacle within wall cavity for AC adapter.
- .2 Recessed Automatic Hand Dryer: Bobrick Trim Line Series, Model No. B3725, or preapproved equivalent.
- .3 Hands-free Soap Dispenser (SD): Deb Touch-Free Ultra Foam Dispenser, Stock Code TBK1LDS, with 1-litre cartridge.
  - .1 Provide two (2) cases of refills for each dispenser. Product: Deb InstantFOAM foam handwash.
  - .2 Include supply & delivery of battery charger and four (4) rechargeable batteries for each dispenser plus four (4) extra.
- .4 Mirrors: (above vanity) Custom Frameless Back-lit LED mirrors; 610MM wide x 1805mm high, high bevel edges, attached by clips.
- .5 Custom Mirror (Full-length): Custom wood-framed mirror. Refer to details. Solid Oak wood, walnut stain. Mounted with clips. Refer to Section 06 20 00 - Finish Carpentry.

## 2.4 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 CAN/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.

## 2.5 FINISHES

.1 Unless otherwise indicated satin finish on stainless steel.

.2 Manufacturer's or brand names on face of units not acceptable.

## Part 3 Execution

### 3.1 EXAMINATION

.1 Verification of Conditions: verify that conditions of substrates and surfaces to receive accessories previously installed under other Sections or Contracts are acceptable for product installation in accordance with manufacturer's instructions prior to accessories installation.

.2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.

.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval from Departmental Representative.

### 3.2 INSTALLATION

.1 Install and secure accessories rigidly in place as follows:

.1 Stud walls: install steel back-plate to stud prior to plaster or drywall finish. Provide plate with threaded studs or plugs.

.2 Hollow masonry units, existing plaster or drywall: use toggle bolts drilled into cell or wall cavity.

.3 Solid masonry, marble, stone or concrete: use bolt with lead expansion sleeve set into drilled hole.

.2 Use tamper proof screws/bolts for fasteners.

.3 Fill units with necessary supplies shortly before final acceptance of building.

.4 Set mirrors with clips, applied in accordance with adhesive manufacturer's instructions. Place plumb and level

### 3.3 ADJUSTING

.1 Lubricate moving parts to operate smoothly and fit accurately.

### 3.4 CLEANING

.1 Progress Cleaning: clean in accordance with Division 1 Cleaning.

.1 Leave Work area clean at end of each day.

.2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Division 1 Cleaning.

.3 Waste Management: separate waste materials for reuse and recycling in accordance with Division 1 Construction/Demolition Waste Management and Disposal.

.1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

**3.5 PROTECTION**

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by accessories installation.

**END OF SECTION**