

**Part 1 General**

**1.1 REFERENCES**

- .1 ASTM International
  - .1 ASTM C1503-08 (2013), Silvered Flat Glass Mirror.

**1.2 SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data: Provide manufacturer's printed product literature and data sheets; include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
  - .1 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.

**1.3 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver, store, and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
  - .1 Store materials 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 and damaged materials with new.

**Part 2 Products**

**2.1 COMPONENTS**

- .1 Provide toilet and bath accessories from a single manufacturer's matching series.
- .2 Towel Bars: Provide chrome finished towel bars in each bathroom, size as indicated on Drawings:
  - .1 TB-1: 254 mm long.
  - .2 TB-2: 610 mm long.
- .3 Toilet Paper Holder: Provide one chrome finished toilet paper holder in each bathroom.

- .4 For above items, provide matching products from one manufacturer's series.
- .5 Clothes hook: Surface mounted, Type 304 stainless steel with satin finish, with concealed mounting plate.
  - .1 Acceptable products:
    - .1 ASI 10-7340-S.
    - .2 Bobrick B-76717.
    - .3 Frost 1138-S.
- .6 Mirror: Silvered back flat glass to ASTM C1503, edges ground and polished smooth.
  - .1 Mounting clips: Stainless or plated steel, J-shaped profile, adjustable.
- .7 Shower rod: Stainless or chromed steel, 25 mm (1 inch) diameter, 0.7 mm (0.028 inch) wall thickness, curved, with matching flanges for mounting; chrome finish. Length: 1524 mm (60 inches).

## **2.2 FABRICATION**

- .1 Weld and grind joints of fabricated components flush and smooth.
- .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 Shop assemble components and package complete with anchors and fittings.
- .7 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.
- .8 Provide steel anchor plates and components for installation on studding and building framing.

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Verify that conditions of substrates and surfaces to receive toilet and bathroom accessories are acceptable for product installation in accordance with manufacturer's instructions prior to toilet and bathroom accessories installation.
- .2 Inform Departmental Representative of unacceptable conditions.
- .3 Proceed with installation only after unacceptable conditions have been remedied.

### **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 bolts with lead expansion sleeves set into drilled holes.
- .4 Toilet and shower compartments: Use male to female through bolts.
- .2 Use tamper proof screws/bolts for fasteners.
- .3 Fill units with necessary supplies shortly before final acceptance of building.

### **3.3 ADJUSTING**

- .1 Adjust toilet and bathroom accessories components and systems for correct function and operation in accordance with manufacturer's written instructions.
- .2 Lubricate moving parts to operate smoothly and fit accurately.

### **3.4 CLEANING**

- .1 Progress Cleaning: Clean in accordance with Section 01 74 00 - Cleaning.
- .2 Leave Work area clean at end of each day.
- .3 Final Cleaning: Upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 00 - Cleaning.
- .4 Waste Management: Remove waste materials in accordance with Section 01 74 19 - Construction/Demolition Waste Management and Disposal.

### **3.5 PROTECTION**

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

**END OF SECTION**

**Part 1        General**

**1.1            REFERENCES**

- .1        ASTM International
  - .1        ASTM A653/A653M-13, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

**1.2            SUBMITTALS**

- .1        Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2        Product Data:
  - .1        Submit manufacturer's instructions, printed product literature, and data sheets for window wells. Include product characteristics, performance criteria, physical size, and finish.

**1.3            DELIVERY, STORAGE, AND HANDLING**

- .1        Deliver, store, and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2        Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

**Part 2        Products**

**2.1            WINDOW WELLS**

- .1        Steel sheet, 1.6 mm thick (16 gauge), corrugated; galvanized to ASTM A653, G90 thickness; formed to shape with roll-formed bead or hem at top edge. Complete with flanges with pre-punched holes for attachment to foundation wall.

**Part 3        Execution**

**3.1            EXAMINATION**

- .1        Verify conditions are acceptable for window well installation in accordance with manufacturer's written instructions.
  - .1        Visually inspect substrate.
  - .2        Inform Departmental Representative of unacceptable conditions.
  - .3        Proceed with installation only after unacceptable conditions have been remedied.

**3.2           INSTALLATION**

- .1       Install window well at location indicated.
- .2       Attach solidly to foundation wall with fasteners as recommended by window well manufacturer.
- .3       Install window well square, plumb, and straight without twist or distortion.

**3.3           CLEANING**

- .1       Progress Cleaning: Clean in accordance with Section 01 74 00 - Cleaning.
- .2       Leave Work area clean at end of each day.
- .3       Final Cleaning: Upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 00 - Cleaning.
- .4       Waste Management: Remove waste materials in accordance with Section 01 74 19 - Construction/Demolition Waste Management and Disposal.

**3.4           PROTECTION**

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

**END OF SECTION**