

**PART - 1 GENERAL**

**1.1 SUMMARY**

.1 Section Includes:

.1 Labour, Products, equipment and services necessary to complete the work of this Section in accordance with the Contract Documents. The work of this Section includes but is not limited to:

.1 Washroom accessories

**1.2 QUALITY ASSURANCE**

.1 Source Limitations: Provide like products of same manufacturer unless otherwise approved by Consultant.

**1.3 SUBMITTALS**

.1 Shop Drawings: Indicate materials, products and finishes and showing in large scale detail the construction, reinforcing, anchorage and, where permitted, the location of exposed fastenings.

.1 Submit engineered shop drawings

.2 Maintenance data: Three copies of a list of the accessories requiring supplies together with names and addresses of local distributors of the supplies.

.3 Samples for Verification: Full size, for each accessory item to verify design, operation, and finish requirements. Approved full-size Samples will be returned and may be used in the Work.

.4 Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.

.1 Identify locations using room designations indicated on Drawings.

.2 Identify products using designations indicated on Drawings.

**1.4 CLOSEOUT SUBMITTALS**

.1 Operation and Maintenance Data: Provide maintenance data for toilet and bath accessories for incorporation into manual.

**1.5 MAINTENANCE MATERIAL SUBMITTALS**

.1 Tools

.1 Provide special tools required for assembly, disassembly or removal for toilet and bath accessories.

.2 Deliver special tools to Contracting Authority.

**1.6 DELIVERY, STORAGE AND HANDLING**

.1 Carefully wrap accessories ensuring protection during shipping and storage.

.2 Store accessories inside the building in the location directed, and so that their identification is readily visible, and in the general order in which they will be required for installation.

1.7 **COORDINATION**

- .1 Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.
- .2 Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

**PART - 2 PRODUCTS**

2.1 **ACCEPTABLE MANUFACTURERS**

- .1 Basis of Design: Refer to Section 00 01 30, List of Materials for complete list of washroom accessory products, designations, manufacturers, sizes and colours.
  - .1 Products by other manufacturers similar in function, design, performance, and construction complying with requirements of this Section may be incorporated into the Work subject to Consultant's acceptance, in accordance with Section 01 25 13, Product Substitution Procedures.
- .2 Provide accessories for the Work from one manufacturer.

2.2 **MATERIALS**

- .1 Sheet steel: To ASTM A653/A653M-11 with ZF001 designation zinc coating.
- .2 Stainless steel: ASTM A167-99 (2009), type 304, with BA finish.
- .3 Stainless Steel Tubing: Type 304, commercial grade, seamless welded, 1.2 mm wall thickness.
- .4 Supply for installation under other Sections, mounting devices and reinforcement required to be built-in for support of grab bars and imposed loads. Be responsible for giving proper notice to other Sections and supplying such reinforcement when required by other Sections for building in.
- .5 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.
- .6 For mental health areas use tamper resistant fasteners, hexalobular conforming to ISO 10664 or other tamper resistant fastener design as accepted by Consultant.

2.3 **FABRICATION**

- .1 Fabricate accessories true, square, rigid, free from distortion and from defects detrimental to appearance and performance.
- .2 Butt visible joints straight and accurate. Mitre corner joints.
- .3 Except as otherwise specified, fabricate accessories for concealed mounting by non-corrosive metal, expansion type, toggle type or other approved type of positive, mechanical anchors to suit the construction to which the accessory is to be mounted.

- .4 Exposed fasteners, where permitted, shall be finished to match the adjacent accessory surface, and shall be countersunk. Where accessories are to be mounted to sheet metal, provide a 3 mm thick minimum full-size metal back-up plate drilled and tapped to receive machine screws and finished to match the adjacent sheet metal surface.
- .5 Where specified as frameless, provide accessories in one piece fronts with 90 degree formed returns at their edges and openings. Continuously weld returns and ground smooth at the corners.
- .6 Where accessory fronts are framed, frame edges, both inside and outside, shall have 90 degree formed returns continuously welded and ground smooth at the corners. Doors shall also have 90 degree formed returns as specified.
- .7 Provide full length concealed stainless steel piano hinges. Hinged elements shall have concealed, mechanically-retained, rubber bumpers for silent closing, and shall close flush with faces of fronts or frames.
- .8 Unless otherwise specified, portions of sheet metal accessory interiors which are visible in the completed work shall be stainless steel. Changes in plane shall be formed or continuously welded and ground smooth.
- .9 Sheet metal accessory parts concealed in the finished installation shall be galvanized sheet steel.
- .10 Hem edges of sheet metal accessible by users or maintenance personnel.
- .11 Accessories for flange-type mounting shall have forged brass, full flanges drilled and countersunk for three mounting fasteners. Fix flanges to tubes using solid silver soldering.
- .12 Back paint components where contact is made with building finishes to prevent electrolysis.
- .13 Shop assemble components and package complete with anchors and fittings.
- .14 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.
- .15 Provide steel anchor plates and components for installation on studding and building framing.
- .16 Engrave lettering on accessories to a depth of minimum 0.254 mm. Size, location and type face of lettering to selection by Consultant. Maintain engraving edges straight and sharp.

## 2.4 **FINISHES**

- .1 Where steel is specified as having a chrome plated finish, pretreat including mechanical removal of imperfections and buffing, degreasing, removal of degreaser, electrolytic cleaning, intermediate treatments of acid washes and cold water rinses in preparation for and to suit plating, nickel plating pretreatment, nickel plating, hard chromium plating with a final hot water rinse.
- .2 Finish stainless steel to a standard No. 4 mechanical finish. Where possible, arrange sheet stainless steel so that the grain of the finish runs vertically in the finished installation.
- .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.
- .2      Stud walls: Provide steel back-plate to stud prior to gypsum board finish. Provide plate with threaded studs or plugs.
- .3      Hollow masonry units or existing gypsum board: Use toggle bolts drilled into cell/wall cavity.
- .4      Install grab bars on built-in anchors provided by manufacturer.
- .5      Fill units full with necessary supplies shortly before Substantial Performance.

END OF SECTION