

Part 1 General**1.1 RELATED SECTIONS**

- .1 Section 07 92 00 - Joint Sealants.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM).
 - .1 ASTM A167-99(2009). Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM A653/A653M-11. Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- .2 Canadian Standards Association (CSA).
 - .1 CSA-B651-12. Accessible design for the built environment.

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, building-in details of anchors for grab bars. Show anchorage, accessory items and finishes.
- .3 Submit manufacturers Product Data sheets. Provide manufacturer's catalog cuts including hardware and fastenings. Submit manufacturer's installation instructions for each component.

1.4 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit representative samples of each specified item, including mounting brackets, fastenings and trim. Reviewed samples will be returned for inclusion into the work.

1.5 CLOSEOUT SUBMITTALS

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

1.6 DELIVERY STORAGE AND HANDLING

- .1 Deliver and store materials in manner to prevent damage and in accordance with manufacturers written instructions. Deliver pre-finished materials in original, unopened cartons or other packaging materials necessary to protect structure and finishes.
 - .1 Label packages clearly with manufacturer's name and item description.

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- .2 Store materials in original packaging until installation.
- .3 Store components with adequate support to ensure flatness and to prevent damage to pre-finished surfaces.

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction / Demolition Waste Management and Disposal.
- .2 Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan.

1.8 EXTRA MATERIALS

- .1 Provide special tools required for accessing, assembly, disassembly or removal for toilet and bath accessories as specified in Section 01 78 00 - Closeout Submittals.
- .2 Deliver special tools to Departmental Representative.

Part 2 Products**2.1 MATERIALS**

- .1 Sheet steel: to ASTM A653/A653M with ZF001 designation zinc coating.
- .2 Stainless steel sheet metal: to ASTM A167, 18-8, Type 304 with brushed finish. Apply manufacturer's proprietary finish to minimize visual markings and appearance of fingerprints.
- .3 Stainless steel tubing: Type 304 commercial grade, seamless welded. Wall thickness as specified for each component.
- .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 COMPONENTS

- .1 Toilet tissue dispenser: double roll type, surface mounted, chrome plated steel frame, capacity of 500 double ply roll, roll under spring tension for controlled delivery.
- .2 Towel dispenser: Surface mounted approximate size 275 mm x 345 mm high x 125 mm deep. Paper towel dispenser door fabricated from .08 mm thick one piece stainless steel. Drawn one piece door fabricated with seamless construction with radius edges. Secure door to cabinet with a concealed, full length stainless steel piano hinge. Provide a cable door-swing limiter and two tumbler locks. Provide a rounded towel tray with a hemmed opening to dispense paper towels without tearing. Paper towel dispenser shall dispense 400 C-fold or 525 multifold paper towels without any additional adapters.
- .3 Surface-mounted soap dispenser: Main body 120 mm wide x 205 mm high x 70 mm deep constructed of 0.8 mm type-304 stainless steel with satin finish. Corrosion-

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resistant valve shall dispense commercially marketed all-purpose hand soaps. Valve shall project 20mm and be operable with one hand and with less than 22.2 N to comply with barrier-free accessibility guidelines. Container shall be equipped with a, clear acrylic refill-indicator window; a locked, hinged stainless steel lid for top filling; and shall have a capacity of 1.2 L. Unit shall have concealed, vandal-resistant mounting.

- .4 Feminine napkin disposal bin: stainless steel, surface mounted unit, continuous hinged door, self closing, embossed with universally accepted symbol, removable stainless steel receptacles fitted with spring clip for deodorizer block.
- .5 Robe hook: 50 x 50 mm overall size with 40 mm projection from wall. Flat face, vertical orientation of hook. Heavy duty, all welded construction. Satin stainless steel. 2 piece mounting bracket consisting of 1.2 mm thick stainless steel welded inside flange and 1.0 mm thick stainless steel wall plate. Stainless steel set screw.

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.
- .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.
- .10 Manufacturers or brand names on face of units is not acceptable.

Part 3 Execution**3.1 INSTALLATION**

- .1 Install and secure accessories rigidly in place as follows:
 - .1 Stud walls: install steel back-plate to stud prior to drywall finish. Provide plate with threaded studs or plugs.
 - .2 Hollow masonry units or existing drywall: use toggle bolts drilled into cell/wall cavity.

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- .3 Solid masonry or concrete: use bolt with lead expansion sleeve set into drilled hole.
- .2 Install grab bars on built-in anchors provided by bar manufacturer. Provide solid wood blocking between studs at all grab bar location in hollow wall types.
- .3 Use tamper proof screws/bolts for fasteners.
- .4 Fill units with necessary supplies shortly before final acceptance of building.
- .5 Comply with manufacturer's written data, including product technical bulletins, installation instructions, carton installation instructions, and datasheet. Manufacturer's recommendations will be considered as minimal instructions.

3.2 SCHEDULE

- .1 Locate accessories where indicated and as follows. Exact locations determined by Departmental Representative.
- .2 Where mounting heights are not indicated in the drawings, mount at heights as recommended by manufacturer. Where barrier free washrooms are provided, mount fixtures and accessories at heights as required by CAN/CSA-B651.
- .3 Toilet tissue dispenser: one in each toilet compartment.
- .4 Towel dispenser/waste receptacles: one in each washroom. Maximum height of dispenser and operable part from floor 1200 mm.
- .5 Soap dispenser: one at each wash basin.
- .6 Feminine napkin disposal bin: one for each women's toilet.
- .7 Robe hook: two in each washroom. Mounting height 1400 mm A.F.F. Install hooks in quantities and at height as indicated on coat rail in locker room details.

END OF SECTION

PART 1 GENERAL1.1 REFERENCES

- .1 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .2 Federal Identity Program (FIP)
 - .1 4.3 Common-Use and Operational Signs.
- .3 Fire Commissioner of Canada Standards
 - .1 FC 311, Standard for Record Storage, May 1979.
- .4 National Fire Protection Association (NFPA)
 - .1 NFPA 10-2013, Standard for Portable Fire Extinguishers.

1.2 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's product literature and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Provide shop drawings.
- .4 Quality control submittals: submit following in accordance with Section 01 45 00 - Quality Control.
 - .1 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, cleaning procedures and.
- .5 Closeout Submittals:
 - .1 Provide operation and maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.3 DELIVERY, STORAGE AND HANDLING

- .1 Packing, shipping, handling and unloading:
 - .1 Deliver, store and handle materials in accordance with Manufacturer's written instructions.
- .2 Waste Management and Disposal:
 - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

PART 2 PRODUCTS

2.1 MULTI-PURPOSE DRY CHEMICAL EXTINGUISHERS

- .1 Stored pressure rechargeable type with hose and shut-off nozzle, ULC labelled for A, B and C class protection.
 - .1 Sizes 2.25 kg (FE-1) as indicated on drawing.

2.2 IDENTIFICATION

- .1 Identify extinguishers in accordance with recommendations of the Federal Identity Program.
- .2 Attach bilingual tag or label to extinguishers, indicating month and year of installation. Provide space for service dates.

PART 3 EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION

- .1 Install or mount extinguishers on brackets with top of extinguisher 1200 mm A.F.F. in accordance with NFPA 10.

METAL LOCKERS**Part 1 General****1.1 RELATED SECTIONS**

- .1 Section 08 71 00 - Door Hardware.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM).
 - .1 ASTM A568/A568M-13. Standard Specification for Steel, Sheet, Carbon, Structural, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for.
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-44.40-2001(R2002). Steel Clothing Locker.

1.3 SUBMITTALS

- .1 Provide Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit Shop Drawings. Indicate type and class of locker, thicknesses of metal, fabricating and assembly methods, assembled banks of lockers, tops, rods, hooks, shelves, bases, trim, numbering, filler panels, end/back panels, doors, handles, locking method, ventilation method and finishes.
- .3 Submit duplicate 50 x 50 mm samples of colour and finish on actual base metal.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction / Demolition Waste Management and Disposal. Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan. Fold up metal banding, flatten and place in designated area for recycling.

Part 2 Products**2.1 MATERIALS**

- .1 Mild cold rolled sheet steel. To ASTM A568/A568M.
- .2 Fasteners: zinc plated steel flat head screws and hex nuts.

2.2 MANUFACTURED UNITS

- .1 Lockers: to CAN/CGSB-44.40. Prefinished sheet steel construction. Single full-height locker and Single half height units as indicated in the drawings. Class 2 - a bank of two or more lockers. Freestanding.
 - .1 Size: 305 mm wide x 610 mm deep x 1830 mm high. Steel thickness: No.16 MSG.

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- .2 Provide full height lockers as indicated in the drawings.
- .3 Assembly: pop-riveted, construction.
- .4 Frames: minimum 1.291 mm type 302/304 prefinished sheet steel.
- .5 Doors: 25 mm thick honeycomb core construction. Minimum 1.291 mm prefinished sheet steel. One-piece double-wall envelope construction. Door swing out. Self closing.
- .6 Door handle: recessed handle. Stainless steel construction.
- .7 Tops bottoms backs and shelves: minimum 0.812 mm prefinished sheet steel. Top: flat.
- .8 Sides: minimum 0.511 mm prefinished steel.
- .9 Hinges: continuous full height stainless steel piano hinges.
- .10 Provide 3 coat hooks per locker. Solid stainless steel. Brushed finish.
- .11 Provide one upper shelf and one lower boot shelf, one tier lockers only.
- .12 Number plate: Provide a high strength black laminated plastic number plate to each locker. 64 mm wide x 29 mm high with numbers a minimum of 11 mm high. Plates shall accommodate up to four digits. Recess flush with door surface and secured with rivets.

2.3 FINISH

- .1 All exposed steel parts and pedestals to receive a high performance hybrid epoxy polyester powder coating, baked on to provide a uniform, smooth, protective finish.

2.4 ACCESSORIES

- .1 Locking system: padlocks. Supplied by Departmental Representative.
- .2 Options: to CAN/CGSB-44.40, Prefinished sheet base, prefinished steel end panels. Prefinished steel trim including corner angles, jamb trim, fillers. To manufacturer's standards.

Part 3 Execution**3.1 INSTALLATION**

- .1 Assemble and install lockers in accordance with manufacturer's written instructions.
- .2 Install full height and paired half height lockers on raised plinth as per detail. Securely fasten lockers to ground and nailing strips.
- .3 Install prefinished steel wall trim around recessed locker banks. Install prefinished steel filler panels (false fronts) where indicated and where obstructions occur.
- .4 Install finished end and back panels to exposed ends and backs of locker banks.
- .5 Install locker numbers.

END OF SECTION