

## **PART 1 - GENERAL**

### **1.1 REFERENCE STANDARDS**

- .1 Canadian Standards Association (CSA International)
  - .1 CAN/CSA-B45 (Latest Edition), Plumbing Fixtures.
  - .2 CAN/CSA-B125.3 (Latest Edition), Plumbing Fittings.
  - .3 CAN/CSA-B651 (Latest Edition), Accessible Design for the Built Environment.
- .2 National Research Council Canada (NRC)
  - .1 National Building Code of Canada (Latest Edition) (NBC).

### **1.2 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Provide manufacturer's printed product literature and datasheets for fixtures, and include product characteristics, performance criteria, physical size, finish and limitations.

### **1.3 CLOSEOUT SUBMITTALS**

- .1 Provide maintenance data including monitoring requirements for incorporation into manuals specified in Section 01 78 00 - Closeout Submittals.
- .2 Include:
  - .1 Description of fixtures and trim, giving manufacturer's name, type, model, year, capacity.
  - .2 Details of operation, servicing, maintenance.
  - .3 List of recommended spare parts.

### **1.4 DELIVERY, STORAGE AND HANDLING**

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

## **PART 2 - PRODUCTS**

## **2.1 MANUFACTURED UNITS**

- .1 Fixtures: manufacture in accordance with CAN/CSA-B45 series.
- .2 Trim, fittings: manufacture in accordance with CAN/CSA-B125.3.
- .3 Exposed plumbing brass to be chrome plated.
- .4 Number, locations: architectural drawings to govern.
- .5 Fixtures in any one location to be product of one manufacturer and of same type.
- .6 Trim in any one location to be product of one manufacturer and of same type.
- .7 Baths:
  - .1 BT-1: recessed tub.
    - .1 Stain-resisting, porcelain enamelled steel, with non-slip surface, integral wide rim seat, sound insulating package. Sizes 1500 x 800 x 400 mm.
    - .2 Waste: concealed pop-up waste and overflow fitting with lever-operated mechanism.
    - .3 Trim: chrome plated brass combination shower and over-rim bath supply fittings with volume control, pressure balancing mixing valve, screwdriver stops, self-returning diverter spout, chrome plated ball joint fully adjustable spray pattern shower head with bent shower arm and escutcheon telephone shower with flexible hose, mounting racket and escutcheon. Provide accessories to limit maximum flow rate to 9.5 litres/minute at 550 kPa.
    - .4 Waste fitting: integral stainless steel basket strainer/stopper, tailpiece, cast brass P-trap with cleanout.
- .8 Individual shower stall showerhead.
  - .1 SH-1: individual showerhead handicapped.
    - .1 Shower valve
      - .1 Concealed in-wall single lever pressure balancing shower control valve.
      - .2 Requires 54 mm wall cavity.
      - .3 Back to back installation capability.
      - .4 Solid brass forged body.
      - .5 Monitor with scald-guard valve. Maintains balanced pressure of hot and cold water even when a valve is turned on or off elsewhere in the system.
      - .6 No volume control-temperature only controlled with handle.
      - .7 Field adjustable to limit handle rotation into hot water zone.
      - .8 120 degree maximum handle rotation.
      - .9 All parts replacement from the front of the valve.
      - .10 Integral stops and checks.
      - .11 Polished chrome plated finish.
      - .12 Inlets/outlets NPS ½ FIP or copper sweat with adaptors.
      - .13 Dual shower unit.
      - .14 Separate diverter valve, for wall shower, with 68 mm lever handle.
      - .15 Separate hand shower with 610 mm combination stainless steel

- slide/grab bar with slide mechanism.
- .16 1778 mm long brass hand shower hose.
- .17 ASSE vacuum breaker.
- .18 Wall elbow.
- .19 Vandal resistant metal level handle – 57 mm.
- .20 Brass body showerhead.
- .21 Fixed flow rate 9.5/min @ 551 kPa.
- .22 Brass bent showerarm, metal set screw flange.
- .23 Polished chrome finish.
- .2 Shower Cabinet
  - .1 Three piece knockdown, reinforced acrylic, scratch and mar resistant, moulded in-floor pattern, two toiletry shelves, grip rail, 150 mm threshold, light kit, white, floor drain.
  - .2 Dimensions 1041 mm W x 914 mm D x 2134 mm H.
- .9 Fixture piping:
  - .1 Hot and cold water supplies to each fixture.
    - .1 Chrome plated flexible supply pipes each with handwheel stop, reducers, escutcheon.
  - .2 Waste:
    - .1 Brass P trap with cleanout on each fixture not having integral trap.
    - .2 Chrome plated in all exposed places.

## **PART 3 - EXECUTION**

### **3.1 APPLICATION**

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

### **3.2 INSTALLATION**

- .1 Mounting heights:
  - .1 Standard: to comply with manufacturer's recommendations unless otherwise indicated or specified.
  - .2 Physically handicapped: to comply with most stringent of either NBC or CAN/CSA B651.

### **3.3 ADJUSTING**

- .1 Conform to water conservation requirements specified this section.
- .2 Adjustments:
  - .1 Adjust water flow rate to design flow rates.
  - .2 Adjust pressure to fixtures to ensure no splashing at maximum pressures.

- .3 Checks:
  - .1 Aerators: operation, cleanliness.
  - .2 Vacuum breakers, backflow preventers: operation under all conditions.
- .4 Thermostatic controls:
  - .1 Verify temperature settings, operation of control, limit and safety controls.

### **3.4 CLEANING**

- .1 Clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Remove surplus materials, excess materials, rubbish, tools and equipment.

**END OF SECTION**