

PART 1 - GENERAL

- 1.1 REFERENCES .1 Canada Green Building Council (CaGBC)
.1 LEED Canada-NC-2009, LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations.
- .2 Canadian Standards Association (CSA International)
.1 CAN/CSA-B45 Series-02 (R2008), Plumbing Fixtures.
.2 CAN/CSA-B125.3-05, Plumbing Fittings.
.3 CAN/CSA-B651-04, Accessible Design for the Built Environment.
- 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.
- .3 Sustainable Design Submittals:
.1 LEED Submittals: in accordance with Section 01 35 21 - LEED Requirements.
- 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.
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- 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.
 - .3 Packaging Waste Management: remove for reuse or return of pallets, crates, padding, banding, and packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.

PART 2 - PRODUCTS

- 2.1 SUSTAINABLE
MATERIAL
- .1 Sustainable Requirements:
 - .1 Materials and products in accordance with Section 01 35 21 - LEED Requirements.
- 2.2 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 Individual shower stall: (See plumbing fixture schedule for stall details).
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- 2.2 MANUFACTURED .7 Individual shower stall:(Cont'd)
UNITS
(Cont'd)
- .1 SH-1: individual tamper proof showerhead.
 - .1 Chrome plated brass or moulded plastic, non-clog, with adjustable spray, ball joint, standard chrome plated bent arm, escutcheon and slide bar . Limit maximum flow rate to 5.7 l/minute at 550 kPa.
 - .8 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 NBCC 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.

- 3.3 ADJUSTING .2 Adjustments: (Cont'd)
 (Cont'd)
- .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.
- .2 Waste Management: separate waste materials
 for reuse and recycling in accordance with
 Section 01 74 21 - Construction/Demolition
 Waste Management and Disposal and Section
 01 35 21 - LEED Requirements.