

PART 1 - GENERAL

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| <u>1.1 REFERENCES</u> | .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. |
| <u>1.2 ACTION AND INFORMATIONAL SUBMITTALS</u> | .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. |
| <u>1.3 CLOSEOUT SUBMITTALS</u> | .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 .1 SH-1: individual tamper proof
(Cont'd) 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.
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- 3.3 ADJUSTING
(Cont'd)
- .2 Adjustments: (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.