

## **PART 1 GENERAL**

### **1.1 REFERENCE STANDARDS**

- .1 ASTM International Inc.
  - .1 ASTM B32, Standard Specification for Solder Metal.
  - .2 ASTM B306, Standard Specification for Copper Drainage Tube (DWV).
  - .3 ASTM C564, Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings.
- .2 Canadian Standards Association (CSA International).
  - .1 CSA-B67, Lead Service Pipe, Waste Pipe, Traps, Bends and Accessories.
  - .2 CAN/CSA-B70, Cast Iron Soil Pipe, Fittings and Means of Joining.
  - .3 CAN/CSA-B125.3, Plumbing Fittings.
- .3 Green Seal Environmental Standards (GSES).
  - .1 Standard GS-36, Commercial Adhesives.
- .4 National Research Council Canada (NRC).
  - .1 National Plumbing Code of Canada (NPC).
- .5 South Coast Air Quality Management District (SCAQMD).
  - .1 SCAQMD Rule 1168, Adhesive and Sealant Applications.

## **PART 2 PRODUCTS**

### **2.1 COPPER TUBE AND FITTINGS**

- .1 Aboveground sanitary and vent, type DWV conform to ASTM B306.
  - .1 Fittings.
    - .1 Cast brass: conform to CAN/CSA-B125.3.
    - .2 Wrought copper: conform to CAN/CSA-B125.3.
  - .2 Solder: conform to ASTM B32.

### **2.2 CAST IRON PIPING AND FITTINGS**

- .1 Buried sanitary minimum NPS 3, conform to CAN/CSA-B70, with one layer of protective coating.
  - .1 Joints:
    - .1 Mechanical joints:
      - .1 Neoprene or butyl rubber compression gaskets: conform to CAN/CSA-B70.ASTM C564 or
      - .2 Stainless steel clamps.

- .2 Hub and spigot:
  - .1 Caulking lead: conform to CSA-B67.
  - .2 Cold caulking compounds.
- .2 Above ground sanitary: conform to CAN/CSA-B70.
  - .1 Joints:
    - .1 Hub and spigot:
      - .1 Caulking lead: conform to CSA-B67.
    - .2 Mechanical joints:
      - .1 Neoprene or butyl rubber compression gaskets with stainless steel clamps.

### **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, as well as datasheets.

#### **3.2 INSTALLATION**

- .1 Install in accordance with National Plumbing Code.

#### **3.3 TESTING**

- .1 Perform pressure test on buried systems before backfilling.
- .2 Perform hydraulic tests to verify grades and freedom from obstructions.

#### **3.4 PERFORMANCE VERIFICATION**

- .1 Cleanouts:
  - .1 Make sure that manholes are accessible and access doors correctly located.
  - .2 Open, cover with linseed oil, and re-seal.
  - .3 Make sure that cleanout rods can probe at least as far as the next cleanout.
- .2 Test to ensure traps are fully and permanently primed.
- .3 Make sure that fixtures are properly anchored, connected to system, and effectively vented.
- .4 Affix applicable label c/w directional arrows on every floor or 4.5 m (whichever is less).

**END OF SECTION**