

## 1. **General Information**

### 1.1 **Related requirements**

- .1 20 00 01 – Scope of work.
- .2 21 05 01 - General requirements for work results.

### 1.2 **References**

- .1 ASTM International Inc.
  - .1 ASTM B 32-08, Standard Specification for Solder Metal.
  - .2 ASTM B 306-02, Standard Specification for Copper Drainage Tube (DWV).
  - .3 ASTM C 564-03a, Standard Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings.
- .2 Canadian Standards Association (CSA)/CSA International
  - .1 CSA B67-1972, Lead Service Pipe, Waste Pipe, Traps, Bends and Accessories
  - .2 CAN/CSA-B70-06, Cast Iron Soil Pipe, Fittings, and Means of Joining
  - .3 CAN/CSA-B125.3-05, Plumbing Fittings.
- .3 Green Seal Environmental Standards (GSES)
  - .1 Standard GS-36-00, Commercial Adhesives.
- .4 South Coast Air Quality Management District (SCAQMD), California State
  - .1 SCAQMD Rule 1168, Adhesive and Sealant Applications.

## **2. Products**

### **2.1 Copper tubes and related fittings**

- .1 Plumbing drainage and ventilation tubes, type DWV, intended for installation above ground: in accordance with the ASTM B 306 standard.
  - .1 Fittings
    - .1 Molded brass fittings: in accordance with the CAN/CSA-B125.3 standard.
    - .2 Copper solder fittings: in accordance with the CAN/CSA-B125.3 standard.
  - .2 Soft solder: tin-lead, 50/50, type 50A lead-free, tin-, 95/5, type TA, in accordance with the ASTM B 32 standard.

### **2.2 Cast iron tubes and related fittings**

- .1 Plumbing and ventilation water pipes, of cast iron, of a nominal diameter of not less than DN 50 mm, for installation underground and above ground, and associated fittings: in accordance with the CAN / CSA-B70 standard, and covered with a layer of protective coating.
  - .1 Joints
    - .1 Mechanical joints
      - .1 ASTM C 564 Neoprene or butyl rubber compression fittings: in accordance with the ASTM C 564 or CAN/CSA-B70 standard.
      - .2 Stainless steel clamp connections

## **3. Execution**

### **3.1 Application**

- .1 Manufacturer's instructions: Comply with manufacturer's written requirements, including any available technical bulletins, instructions for handling, storing, and commissioning products and data sheet instructions.

### **3.2 Installation**

- .1 Install piping in accordance with Section 23 05 05 - Piping Installation.

- .2 Install the elements in accordance with the requirements of the National Plumbing Code and the relevant local authorities.

### **3.3 Tests**

- .1 Perform the pressure testing of buried pipes before backfilling.
- .2 Submit piping to hydrostatic testing to ensure they are not blocked and that the slope is appropriate.

### **3.4 Performance control**

- .1 Cleanout
  - .1 Ensure that cleanouts are accessible and that their inspection stamp is located in a suitable location.
  - .2 Open the cleanouts, apply linseed oil and close tightly.
  - .3 Ensure that the overflow rod inserted in a cleanout will reach at least the next cleanout.
- .2 Ensure that the traps are well primed and retain their trap seal.
- .3 Ensure the plumbing fixtures are properly attached, connected to the network and well ventilated.
- .4 Put an appropriate identification label on the various pipes (including plumbing drainage, ventilation), with direction arrows on all floors or at intervals of 4.5 m (the smaller of these two values to be retained).

**END OF SECTION**