



### **Epoxy Cast Iron Soil Pipe Suggested Specification**

- A. General: Piping shall meet one of the latest editions of the following standards
  - a. Cast Iron Pipe, Hubless: ASTM A888 or CISPI 301
  - b. Cast Iron Couplings, Hubless: ASTM C1277, ASTM C1540 or CISPI 310
  - c. Cast Iron Pipe, Hub and Spigot: ASTM A74
  - d. Cast Iron Pipe, Hub and Spigot Gaskets: ASTM C564
  
- B. Epoxy Cast Iron Soil Pipe Type: All DWV and storm drainage shall be epoxy coated cast iron soil pipe. Epoxy coated cast iron soil pipe shall be tested for corrosion resistance to 2pH and to 12pH, high temperature resistance to 203 degrees Fahrenheit, salt spray resistance, flame resistance and temperature cycling. Epoxy coated cast iron soil pipe shall have a two-part epoxy sprayed on coating interior thickness of 5 mils. Exterior coating shall be 2.5 mil resin. All epoxy coated cast iron fittings shall have a 5 mils thickness on interior and exterior. Epoxy coated cast iron soil pipe shall have a 10 year warranty.
  
- C. Cast Iron Soil Pipe Markings: All cast iron soil pipe shall be clearly marked with the manufacturer's name, country of origin, registered trademark of manufacturing site, eight-digit date code, pipe diameter and length, relevant ASTM standard and registered trademark of the third-party certifier. Third party certifier shall be IAPMO or other organization that is accredited by ANSI.
  
- D. Material Test Reports: Suppliers of cast iron soil pipe shall be able to supply material tests reports in accordance with the relevant ASTM standard and shall include testing and analysis on: radioactivity, dimensional characteristics, tensile strength and chemical/metallurgical content. Suppliers shall also supply MSDS sheets on all coatings.
  
- E. Cast Iron Soil Pipe Specification: Interior of cast iron soil pipe shall be bored for smoothness prior to the application of coatings. All coatings shall be sprayed on for consistent coverage.
  
- F. Couplings: Heavy duty couplings with 80 in-lbs required to torque the bolts with EPDM seals shall be used. SV Gaskets: SV gaskets shall be made from Viton.
  
- G. Epoxy Touch Up for Corrosive Applications: Epoxy touch up tape shall be applied to all cut edges where raw alloy is exposed.
  
- H. All cast iron soil pipe shall be installed per the manufacturer's instructions.