

**CHARLOTTE**  
**PIPE AND FOUNDRY COMPANY**

**System:** PVC Cellular Core (Foam Core) Sewer Pipe PS 50 / Sewer and Drain Series

**Scope:** This specification covers PVC cellular core (foam core) pipe produced to Sewer and Drain outside diameter and have the required wall thickness to meet designated PS (pipe stiffness) 50. This pipe is intended for use in sewer, and storm drainage non-pressure applications where the operating temperature will not exceed 140°F.

**Specification:** Pipe shall be manufactured from virgin rigid PVC (polyvinyl chloride) vinyl compounds with a Cell Class of 11432 as identified in ASTM D 4396. PVC cellular core pipe shall be Sewer and Drain Series outside diameter and have the required wall thickness to meet designated pipe stiffness PS 50 conforming to ASTM F 891. Type PSM Sewer fittings shall conform to ASTM D 3034.

Installation shall comply with the latest installation instructions published by Charlotte Pipe and Foundry and shall conform to all applicable plumbing, fire, and building code requirements. Buried pipe shall be installed in accordance with ASTM D 2321 and ASTM F 1668. Solvent cement joints shall be made in a two step process with primer manufactured for thermoplastic piping systems and solvent cement conforming to ASTM D 2564. The system shall be protected from chemical agents, fire stopping materials, thread sealant, plasticized vinyl products, or other aggressive chemical agents not compatible with PVC compounds. Systems shall be hydrostatically tested after installation. **WARNING!** Never test with or transport/store compressed air or gas in PVC pipe or fittings.

**Referenced Standards:**

ASTM D 4396	Compounds for Cellular Core Pipe
ASTM F 891	Co-extruded PVC Pipe with Cellular Core
ASTM D 3034	PVC Type PSM Sewer Fittings
ASTM D 2564	Solvent Cements for PVC Pipe and Fittings
ASTM D 2321	Underground Installation of Thermoplastic Pipe (non-pressure applications)
ASTM D 3212	Joints for Drain and Sewer Plastic Pipes
ASTM F 1668	Procedures for Buried Plastic Pipe

Note: Latest revision of each standard applies.

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