

1909 - POLYVINYL CHLORIDE (PVC) PIPE

SECTION 1909

POLYVINYL CHLORIDE (PVC) PIPE

1909.1 DESCRIPTION

This specification covers polyvinyl chloride pipe (PVC) for storm sewers and culverts.

1909.2 REQUIREMENTS

a. Polyvinyl Chloride Pipe. Provide polyvinyl chloride (PVC) for storm sewers and culverts that comply with one of the following:

(1) AASHTO M 304 (Profile Wall) with the following additions or exceptions:

- Seamless construction will be required; spiral wound pipe will not be allowed.
- ASTM D 1784, use only Cell Classification of 12454C.

(2) AASHTO M 278 (Smooth wall), or ASTM F 679 (Large Diameter Sewer Pipe).

- ASTM D 1784, use only Cell Classification of 12454.

b. Joints. To obtain soil tight joints, manufacture the pipe joints to comply with the following:

- Maximum opening is 1 inch.
- For openings over 1/8-inch, exceed the channel length by 4 times the size of the opening. Channel length is the length of the path that the soil must infiltrate.

c. End Sections. Provide only corrugated metal or precast concrete end sections that comply with the sizes and dimensions in the Contract Documents, and applicable **SECTION 1902** or **1904**. Connect the dissimilar materials using a soil tight connection approved by the Engineer.

1909.3 TEST METHODS

Test materials in accordance with the AASHTO and ASTM standards cited in **subsection 1909.2**.

1909.4 PREQUALIFICATION

Follow the instructions on the AASHTO National Transportation Product Evaluation Program's (NTPEP) website to participate in the audit program for polyvinyl chloride (PVC) pipe plants.

Forward an official copy of the initial (and latest) NTPEP audit report to the Bureau Chief of Construction and Materials for evaluation. Include copies of the most recent six months of quality control test results.

In order to maintain prequalified status, send a copy of the annual NTPEP certificate of compliance as soon as it is received. Plants that have been removed from the NTPEP website listing will be removed from prequalified status.

Plants that fail to provide the annual certificate of compliance or are no longer in compliance with the audit requirements may be removed from prequalified status.

1909.5 BASIS OF ACCEPTANCE

Prequalification as specified in **subsection 1909.4**.

Receipt and approval of a Type C certification as specified in **DIVISION 2600**.

Visual inspection for condition and dimensional requirements.

Successful testing with a mandrel as outlined in **subsection 817.3b**.