



## SECTION 1046

### PIPE LINER

**1046.1 Scope.** This specification covers material requirements for pipe liner.

**1046.2 Material.** Pipe liner shall be in accordance with one of the following.

(a) HDPE pipe in accordance with ASTM F 714, maximum DR 32.5.

(b) HDPE pipe in accordance with ASTM D 3350 cell classification 345464C. This pipe liner shall have approved dimensions on file with Construction and Materials.

(c) HDPE pipe in accordance with ASTM F 894 open profile, Class RSC 100 or RSC 160.

(d) PVC pipe in accordance with ASTM F 949, except that the PVC pipe and fittings shall be made of a PVC compound having a minimum call classification of 12454B, in accordance with ASTM D 1784. The joining method for PVC pipe shall be by elastomeric material in accordance with ASTM F 949.

**1046.3 Pipe Marking.** Each length of pipe liner furnished shall be permanently marked by the manufacturer with the manufacturer's name and applicable ASTM designation.

**1046.4 Certification and Acceptance.** The contractor shall furnish a manufacturer's certification to the engineer that the pipe liner was manufactured, tested, and is in accordance with this specification. Acceptance of the material will be based on the manufacturer's certification and statement, pipe liner identification markings and upon the results of such tests as may be performed by the engineer.

#### **1046.5 Inspection.**

**1046.5.1** The engineer may inspect the fabricated pipe liner at the manufacturing plant, intermediate distribution point or destination. The manufacturer shall furnish to the engineer an itemized statement of the sizes and lengths of pipe liner in each shipment. The engineer shall have access to the manufacturing plant or intermediate distribution point for inspection. Each facility shall provide the means to safely inspect all aspects of production or storage. Any previously rejected pipe liner included in a later lot will be cause for rejection of the entire lot. A lot will be defined as all the material presented for inspection at one time.

**1046.5.2** Inspection will include an examination of the pipe liner for markings, variance from specified diameter, net length of fabricated pipe liner, and any evidence of poor workmanship. The inspection may include taking samples.

#### **1046.6 Rejection.**

**1046.6.1** Any individual section of pipe liner failing to meet the marking, diameter, length or workmanship requirements of these specifications will be rejected.

**1046.6.2** If a pipe liner fails to meet the requirements, the pipe liner sampled will be rejected and the lot will be resampled. A resample will be of the same size as the original sample. The resample shall comply in all respects or the entire shipment will be rejected.