



## SECTION 1075

### CENTRIFUGALLY-CAST FIBERGLASS-REINFORCED POLYMER MORTAR PIPE

**1075.1 Scope.** This specification covers centrifugally-cast fiberglass-reinforced polymer mortar pipe to be used in pipejacking and microtunneling for horizontal boring applications under roadways.

**1075.2 Acceptance.** Acceptance of the material will be based on the manufacturer's certification and upon the results of any tests required by the engineer.

#### **1075.3 Manufacture.**

**1075.3.1** Pipe shall be manufactured from polyester resin systems with a proven history of acceptable performance for the particular application. The historical data shall have been acquired from a composite material of similar construction and composition as the proposed product.

**1075.3.2** Pipe shall be manufactured from reinforcing glass fibers of commercial grade E-glass filaments with binder and sizing compatible with impregnating resins.

**1075.3.3.** Pipe shall be manufactured from silica sand, with a minimum of 98 percent silica, and a maximum moisture content of 0.2 percent.

**1075.3.4** When used, resin additives, such as curing agents, pigments, dyes fillers, thixotropic agents, etc., shall not detrimentally affect the performance of the product.

**1075.4 Documentation.** The manufacturer shall provide certification to the contractor that the material provided is in accordance with ASTM D 3262 and that pipe joints meet the performance requirements of ASTM D 4161. The certification shall state the manufacturer's name and shall have attached typical results of tests on the material and pipe joints.

**1075.5 Construction Inspection.** Pipe will be inspected for defects prior to installation. Damaged pipe will be rejected. Any pipe that appears cracked near the joint will be rejected.