
Material Specification 553—Ductile Iron Pipe

1. Scope

This specification covers the quality of ductile iron pipe and fittings.

2. Pipe

Ductile iron pipe shall conform to the requirements of ANSI/AWWA C151/A21.51, Ductile Iron Pipe, Centrifugally Cast in Metal Molds or Sand Lined Molds for Water or Other Liquids, and ANSI/AWWA C115/A21.15, Flanged Ductile Iron Pipe with Threaded Flanges.

3. Fittings

Ductile-iron pipe fittings shall conform to the requirements of ANSI/AWWA C110/A21.10, Ductile Iron and Gray Iron Fittings, 3 through 48 inch, for Water and Other Liquids, and ANSI/AWWA C153/A21.53, Ductile Iron Compact Fittings, 3 through 12 inch, for Water and Other Liquids.

4. Joints

Rubber-gasket joints for ductile iron pipe and fittings where either mechanical or push-on joints are used shall conform to the requirements of ANSI/AWWA C111/A21.11, Rubber Gasket Joints for Ductile Iron and Gray Iron Pressure Pipe and Fittings.

5. Lining

Interior lining for ductile-iron pipe and fittings shall conform to the requirements of ANSI/AWWA C104/A21.4, Cement Mortar Lining for Ductile Iron Pipe and Fittings for Water.

6. Encasement

Encasement for ductile iron pipe and fittings shall conform to the requirements of ANSI/AWWA C105/A21.5, Polyethylene Encasement for Ductile Iron Pipe for Water and Other Liquids.

