

SECTION 129

DUCTILE IRON PIPE

129.1 GENERAL

Ductile iron pipe is acceptable for use in the installation of water lines for sizes 4 inches to 64 inches. Ductile iron pipe shall only be used for sanitary sewers where specifically required by the plans *or* authorized by the ENGINEER. The size and thickness class for ductile iron pipe shall be as specified herein or on the plans.

129.2 REFERENCES

129.2.1 ASTM:

- A 674
- A 746

129.2.2 AWWA:

- C 104                    C 105
- C 111    C 115
- C 150    C 151
- C 600

129.2.3 This Publication

- Section 130
- Section 801
- Section 900

129.3.1 The ENGINEER shall determine the required class of ductile iron pipe based on the laying condition, depth of cover and loading factors in accordance with AWWA C 150 but in no case shall the ductile iron pipe be less than pressure class 150. If a pressure class higher than 150 is required, it will be specified on the plans or in the Supplemental Technical Specifications.

129.3.2 Ductile iron pipe shall be manufactured in accordance with AWWA C 151 and shall be cement mortar lined with a bituminous seal coat in accordance with AWWA C 104.

129.3.3 Ductile iron pipe joints for underground installations shall be rubber-gasketed push-on, *or* mechanical type in accordance with AWWA C 111.

129.3.4 Where specified on the construction drawings, the ductile iron flanged joint pipe shall meet the requirements in AWWA C 115. Flanged joints shall only be utilized in above ground installations or within structures, such as: valve pits or vaults.

129.3.5 Ductile iron pipe connections to fittings shall be as specified in Section 130.

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129.3.6 Ductile iron pipe shall be installed in accordance with AWWA C 600 and Section 801. When specified or authorized by the ENGINEER, polyethylene encasement shall be installed and shall conform to AWWA C 105.

129.4 DUCTILE IRON SANITARY SEWER PIPE

129.4.1 Ductile iron pipe, utilized for sanitary sewer installation, shall be asphaltic lined in accordance with ASTM A 746, unless otherwise specified on the plans or in the Supplemental Technical Specifications.

129.4.2 All pipes shall be a minimum of pressure class 150.

129.4.3 When specified or authorized by the ENGINEER, polyethylene encasement shall be installed in accordance with ASTM A 674.

129.5 MEASUREMENT AND PAYMENT

Ductile Iron pipe with or without polyethylene encasement for both pressure and gravity flow shall be measured and paid for at the contract unit price as specified in Section 801 and 900 and/or as defined in the Bid Proposal.