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Advances in CIPP Pressure Pipe Liner Testing and Design

ABSTRACT

In North America CIPP pressure liners are typically designed using ASTM F1216 Appendix x1.1. This paper will discuss ASTM F 1216 design method limitations for the design of potable water CIPP pressure liners and the need for the completion of short and long-term hydrostatic burst tests on full scale CIPP samples. It will then discuss the development of the Waterloo CIPP Pressure liner test facility and test results on a CIPP liner products available in North America. The test results will show significant short term burst test variability and how this variability can impact the CIPP liner pressure rating and the long term performance of these liners.