

Product Evaluation

RE: Review of Primus Line

PRODUCT

The Primus Line is manufactured by Raedlinger Primus Line located in Cham, Germany and distributed by Raedlinger Primus Line located in Toronto, Ontario.

VENDOR CLAIMS AND INFORMATION

CLAIMS:

Primus Line is a trenchless technology for the rehabilitation of pressure pipelines for different media such as water, gas and oil. Primus Line pipes is a multi-layered structure and very thin wall thickness, the Primus Line hose provides both flexibility and ultra-high strength material. Primus Line hose is connected to the existing pipe using Primus Line connectors. The high pressure connector consists of a contoured internal core and external sleeve. The external sleeve has a malleable steel jacket on the inside. A resin which is injected through a valve on the external sleeve, forces the steel sleeve and Primus Line into the contours of the internal core to obtain a durable, pull-proof connection. Product web link: <http://www.primusline.com/en>.

DESCRIPTION:

Primus Line is a pipe renovation system consisting of liner and connector. The liner consists of three layers: wear-resistant Polyethylene outer layer, Kevlar-Fabric mid- layer and Thermoplastic polyurethane inner layer. Primus Line is available in nominal diameter from 6" to 20".

POTENTIAL USAGE:

Primus Line is a trenchless technology for the rehabilitation of pressure pipelines for different media such as water, gas and oil. Primus Line has the ability for high operating pressures, self-supporting system, and bendable up to 45°, bend radius of 5D, insertion length of 2.5m and continuous temperature of up to 50°C.

STANDARDS:

ICC-ES LC1034-2013

ICC-ES PMG listing program assists code enforcement professionals to determine whether plumbing, mechanical or fuel gas products comply with codes and applicable standards. The PMG Listing Program certifies products in the areas of plumbing, mechanical and fuel gas. While most listing programs only verify that products adhere to standards, the ICC-ES program provides comprehensive coverage of both codes and standards.

ALBERTA TRANSPORTATION COMMENTS

EXPERIENCE:

Alberta Transportation has no experience with this product.

APPLICATION STANDARDS:

The Alberta Transportation specification for polyethylene culvert materials is as per the following: Specification 5.24, Supply of Polyethylene Pipe

RECOMMENDATIONS:

Primus Line be listed as a Potential Product under Alberta Transportation Products List, Utility Pipeline Crossing – Pressurized – Water – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

Caveat: Steel pipe casing is required under department highways with the use of this product.

TRIAL PROJECTS

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