

Fusible PVC Done Right

Lower installation costs, longer pull lengths and compatibility with existing infrastructure gives FPVC a place alongside interlocking PVC and HDPE within the trenchless industry. As one of the first projects in the City of Vaughan to incorporate FPVC pipe into the City's water system, a local watermain improvement project started in 2011 installed approximately 0.85 km (0.53 mi) of 400mm (16 in) AWWA C900 FPVC watermain using HDD. This project took place along a heavily travelled and recently reconstructed road corridor providing few opportunities for open-cut. These conditions increased the projects complexity and for the first time the installation of the new product for the City which was also the longest trenchless installation of FPVC at the time. This presentation will examine the details that were considered throughout the design, shop drawing review and installation process. Discussion will cover the following key point:

- Physical properties of FPVC;
- Alignment selection for the HDD installation;
- Handling, inspection, material; and
- Alternative FPVC products for trenchless installation.