

## Cured-In-Place Pipe Testing

Cured-in-place pipe (CIPP) was first installed in the early 1970's in Europe. In the late 1970's and early 1980's the technology was introduced in North America.

The process involves the insertion of a tube impregnated with a thermosetting resin, which is expanded and cured to form a tight fitting liner within the host pipe.

**The end product is a pipe within a pipe.**



Relining existing pipes without removing the old pipe is a very cost efficient process since little excavation effort is required to repair or reline an existing water main or sewage pipe.

Though a number of, well engineered, integrated CIPP systems are still available today, many products have, over the last 15 years, become commodity products and are furnished and installed by contractors with a variety of qualifications. In some cases these contractors perform both the wet-out of the liner and the installation on site.

We are therefore challenged to identify what truly is an acceptable level of quality for CIPP, to sustain a 50 or 100 year life. How do we verify that the product is installed correctly to meet these projections?

**CIPP PERFORMANCE TESTING**



The Master Municipal Specifications and the referred ASTM standards are recommending third party testing for CIPP installations in addition to the commonly practised CCTV inspections.

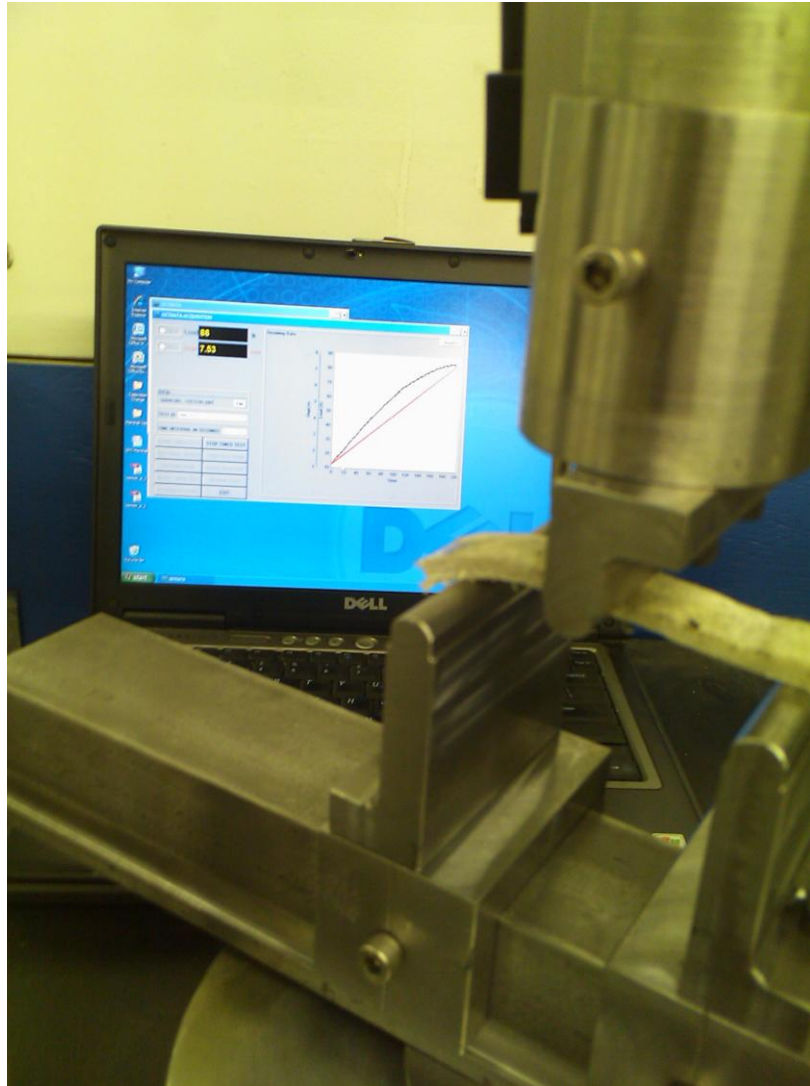
We are able to provide cost effective and reliable testing services to ensure your CIPP installation complies with the contract specifications and the ASTM standards.

Our widely distributed network of offices around BC is saving you money and time for technicians to retrieve samples from your jobsite and to comply with the chain of custody required to assure that samples taken and tested are representative.

Further to that, we are able to monitor the installation on site as an independent party to make sure, all of the process parameters are maintained.

#### Testing Procedures

Flexural testing per ASTM D790  
Tensional testing per ASTM D638  
Dimensional testing per ASTM D3567  
Gravity Pipe Leakage Testing  
Pressure Pipe Testing



**Certified CSA Category II Plus Additional Tests**  
**Canadian Council of Independent Laboratories (CCIL)**  
**Testing and Inspection conform to CSA, ASTM and AASHTO Standards**

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**CIPP PERFORMANCE TESTING**

