



Pipe Lining Supply, Inc. is pleased to announce that we have in stock, City of Los Angeles and "California Greenbook" approved tube and resin. Many of you have requested product that will meet this standard.

The City of Los Angeles/California Greenbook standard is determined through a couple of procedures. First, resin samples, both neat resin, and resin impregnated tube must be submitted to an independent laboratory for testing. Some components of the test include a test of flexural modulus, both long term and initial, tensile strength, and most importantly testing for weight gain or loss over a 112 day period. This testing protocol was implemented in 1953, and has remained unchanged since its' inception. Many cities in California subscribe to the Greenbook as the source of their construction standards, and cities can and have modified any section of the standards they deem important to their city.

In order to eliminate duplicate testing of the same resins and tube combinations out there, the process has accepted "as equal" to any approved resin/tube systems by all contractors using those systems. Pipe Lining Supply, Inc. is supplying Applied Felt tube as tested, and Interplastics vinyl ester resin as tested. The tube/resin system that we are supplying has been submitted for testing and has passed the test. Please see the attached Lab report approval #2003-514-05. This approval covers the entire lateral and you must show these letters or give this Lab Report number when getting a permit.

This process is not to be confused with approvals that only cover lining from the building to the property line by any single agency. Those approvals do not give complete sewer lateral rehabilitation solutions, and if used to the street connection, may violate other department or governmental agency jurisdiction over lining.

Finally, the ASTM F 1216 governs the design thickness and accepted standards to meet to successfully complete installation. This is where the flexural modulus test comes into to play. In completing the thickness requirement, there is a formula to determine the finished thickness. Using long term flexural modulus, the thickness for a specific site can be determined. The higher long term flexural modulus number, the thinner that composite can be. Site specific influences include highway loading, weight of the ground, groundwater, and other site conditions.

For further details, please contact Pipe Lining Supply, Inc. with any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "David L. Hersh".

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