

Product Name: Clear Cal Tube**Product Description:** Bladder used for horizontal/vertical pipe rehabilitation.**Typical Applications:**

Material typical used in a straight horizontal/vertical shot for pipe rehabilitation. Materials strength and flexibility allow it to be inverted and allows material to hold material against host pipe. Installation typically limited to two bends.

Performance Limits

**** If product is utilized outside the limits defined below, warranty coverage is voided ****

Characteristic	Spec	Comments
General		
Thickness of material	0.30 - 0.35 mm	Material has good flexibility; Recommended to utilize mineral oil on bladder during the inversion process to assist in the cal tube inversion into resin saturated material.
Sizes Available (in.)	3, 4, 6, 8, 10, 12	Custom sizes are available. Contact your local sales representative to determine product suitability for your application
Resins		
Epoxy (2:1)	YES	Compatible with cold, warm, hot, and heat assisted variants of resin
Epoxy (4:1)	YES	Compatible with cold variant of resin
Vinyl Ester	YES	Compatible with Vinyl Ester resin
Install Design		
Can be used across Transitions?	Yes	Always go with larger size diameter for correct cal tube size.
Remote Start Allowed?	YES	Tab cal tube to liner using tabbing adhesive HH-66 . Refer to training manual for correct tabbing procedure.
Installation		
Installation Conditions	-	Clear Cal tube can be used in ambient curing methods installations and hot water and steam heat assisted applications.
Typical Inversion Pressures (psi)	5-12	Depends on installation pressures, pipe diameter, and number of bends (45° & 90°)
Maximum Inversion Pressure (psi)	20	Pressures exceeding this limit run the risk of tearing the liner or excessive "thinning" around bends
Max Curing Pressures (psi)	15	Pressures exceeding this limit run the risk of tearing the liner or excessive "thinning" around bends
Maximum Heat Assist Temperature (°F)	220°F	Cal Tube can be cured ambient, hot water or steam Do not exceed 220°F at the liner
Handling Protocol	Note	Do not roll out on uneven surfaces including pavement. This will create holes if stepped on. Do not leave out in direct sunlight for any amount of time.

Please contact your representative at 1-866-336-2568 if you have any questions.

