

Submittal

General Contractor North American Pipeline Services, LLC

Job Name: SEWER & MANHOLE REHABILITATION

Contract Number: SR-01-15-15B

Submitted to: North American Pipeline Services, LLC
210 Bennett Road, Freehold, NJ 07728

Engineer: Maser Consulting, P.A.
331 Newman Springs Road, Suite 203, Red Bank, NJ 07701
Project No. 15001124A

Allstate Submittal #: 2

Item Submitted: Felt Material

Manufacturer: Mississippi Textiles Corp. Ferratex
160 Corporate Drive 20520 Unico Road
Batesville, MS 38606 McKenney, VE 23872

Date Submitted: March 17, 2016

Specification Section: 02607

Item is as specified
in contract documents: Yes

Certification Statement:

By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data and I have checked and coordinated each item with other applicable approved shop drawings and contract requirements.

Submitted By:



Al Hickson
Allstate Power Vac, Inc

MISSISSIPPI TEXTILE CORP
M-TUBE



www.mtubeonline.com

160 Corporate Dr.
Batesville, MS 38606

Tel: (662) 578-7797
Fax: (662) 578-7798

February 5, 2010

Mr. Tony Doherty
Allstate Power Vac
928 East Hazelwood Avenue
Rahway, New Jersey 07065

Subject: Manufacturers Certification

Dear Mr. Doherty,

This Manufacturers Certification documents that Allstate Power Vac has received MTC installation data and is authorized to install MTube for Cured In Place Pipe (CIPP) rehabilitation.

Sincerely,

A handwritten signature in black ink, which appears to read "Greg Laszczynski". The signature is written in a cursive, flowing style.

Greg Laszczynski
Director of Business Development
Mississippi Textiles Corporation - MTC



www.mtubeonline.com

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Batesville, MS 38606

Tel: (662) 578-7797
Fax: (662) 578-7798

CERTIFICATE OF COMPLIANCE

Date: February 5, 2010
To: Allstate Power Vac
Re: CIPP Felt Tube

MTC CIPP felt tubes are manufactured in accordance with specifications of MTC and will comply with the guidelines of ASTM F 1216 and ASTM F 1743. All MTC CIPP felt tubes are also manufactured in an ISO 9000:2001 certified factory.

Mississippi Textile Corporation

A handwritten signature in cursive script, reading "Greg Laszczynski".

Greg Laszczynski
Director of Business Development
MTC

DISCLAIMER OF WARRANTY: AS INSTALLATION CONDITIONS (INCLUDING, AMONG OTHERS, PIPE TYPE & CONDITION, GROUNDWATER DEPTH & TEMPERATURE, DEPTH OF COVER & SOIL TYPE, LIVE LOADS, SITE ACCESS AND WEATHER) AND INSTALLER EXPERIENCE, TECHNIQUES AND TYPE OF EQUIPMENT VARY GREATLY, MTC EXCLUDES ANY WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE GOODS SOLD HEREUNDER AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR USE OR ANY OTHER MATTER WITH RESPECT TO THE GOODS WHETHER USED ALONE OR IN COMBINATION WITH OTHER PRODUCTS. MTC HAS NOT PROVIDED ANY DESIGN SPECIFICATIONS OR COMPUTATIONS, AND ACCORDINGLY, MTC DOES NOT WARRANT THE DESIGN.



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February 5, 2010

Mr. Tony Doherty

Allstate Power Vac

Subject: Manufacturers Certification

Dear Mr. Doherty:

This Manufacturers Certification documents that Mississippi Textile Corporation (MTC) has manufactured and sold more than 2,000,000 ft of non woven Cured in Place Pipe (CIPP) liners under the brand name of MTube for use in the reconstruction of underground pipelines.

Sincerely,

A handwritten signature in cursive script, reading "Greg Laszczynski". The signature is written in dark ink and is positioned above the printed name and title of the signatory.

Greg Laszczynski
Director of Business Development
Mississippi Textiles Corporation - MTC



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February 5, 2010

Mr. Tony Doherty
Allstate Power Vac
928 East Hazelwood Avenue
Rahway, New Jersey 07065

Subject: Manufacturers Certification

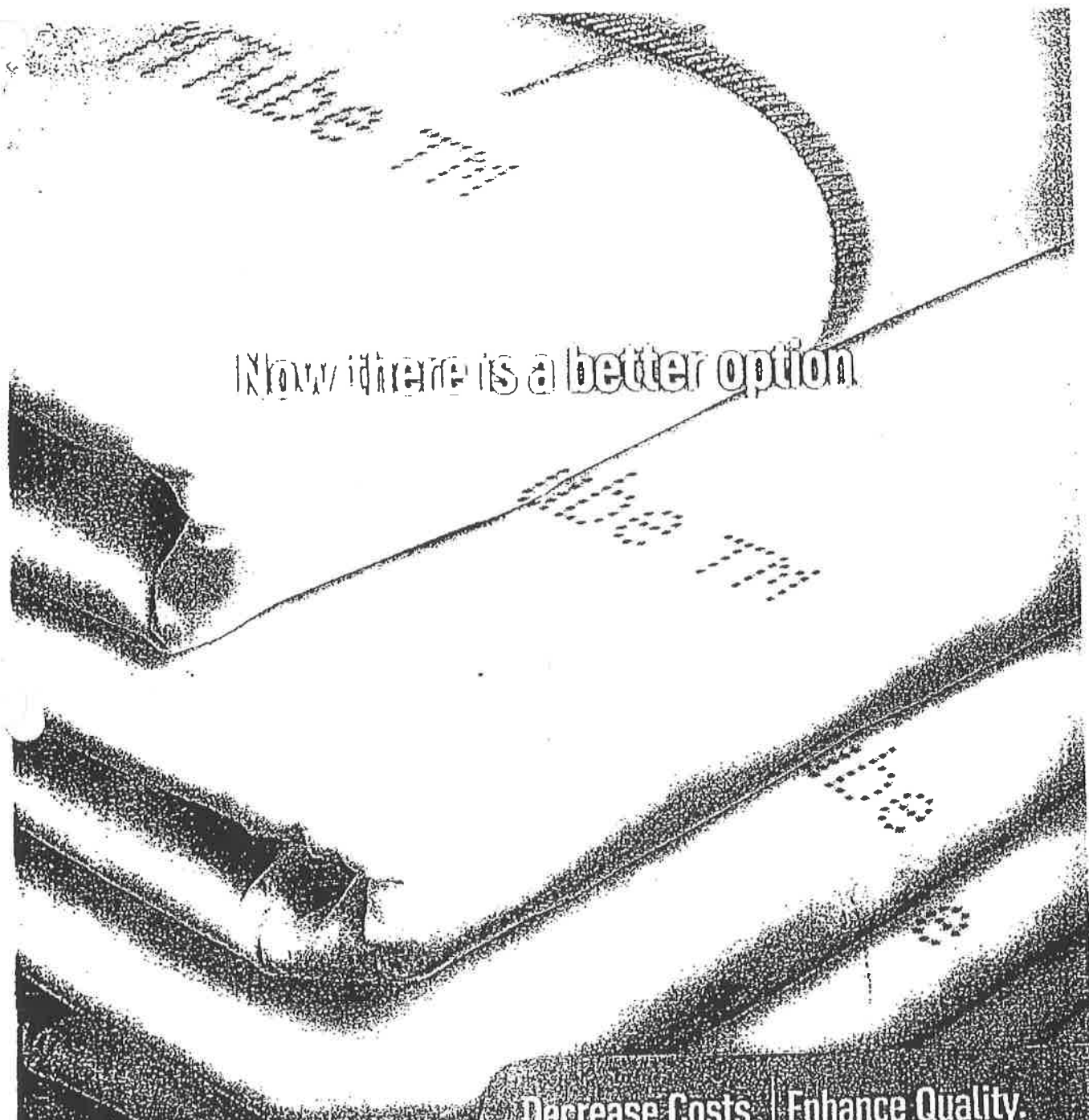
Dear Mr. Doherty,

Pursuant to our conversation this morning, this letter confirms that Mississippi Textiles Corporation (MTC) offers the MTube product in all diameters ranging from 6" to 96". Additionally, the product can be manufactured for any tube thickness and to accommodate changes in diameter in host pipelines. The MTube product is offered either dry or impregnated with various types of resin formulations for CIPP applications.

Sincerely,

A handwritten signature in cursive script that reads "Greg Laszczynski".

Greg Laszczynski
Director of Business Development
Mississippi Textiles Corporation - MTC



Now there is a better option.

Decrease Costs. Enhance Quality.



Are you paying too much for your CIPP tube? Are you getting the best quality?
Decrease costs and enhance quality on your next CIPP project. Order MTubes from MTC. Available wet or dry.
877-MTC-TUBE (877-682-8823) | info@mtubeonline.com

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Quality on Demand

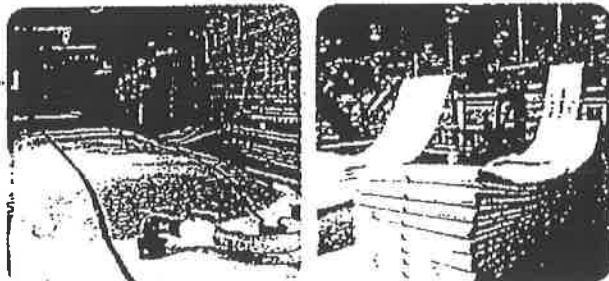
MTube™ is the industry's highest quality cured-in-place pipe (CIPP) tube, ready when you need it.

Every CIPP project you undertake has its share of challenges and unexpected obstacles. When you order MTubes for your projects, you can be assured that you are getting the highest quality felt tubes available on the market and that you are getting them on your schedule. Our tubes are specially manufactured to accommodate your installation method whether you use water or steam inversion. MTubes will also handle the unique demands of steam cure.

We understand what it takes to consistently produce high quality MTubes. Over 30 years of experience and state-of-the-art manufacturing techniques ensure that our MTubes are constructed for optimal installation and long-term performance.

MTubes are manufactured from premium quality raw materials. The raw synthetic fibers we select to make our MTubes must pass our exacting standards for quality. We then put our MTubes through more than 25 stringent quality checks for weight, thickness, density, strength and elongation. The result is an MTube with superior uniformity.

Premium CIPP tube available wet or dry.



State-of-the-art ISO certified manufacturing techniques ensure that MTubes are constructed and wet-out for optimal installation and long-term performance.

The heat-bonded coating over the seam seals the stitching and creates a permanent connection at the butt-sewn seam joint.

The butted ends of our felt are sewn together. Experience has shown that the strongest tubes are made with butt-sewn seams. The uncoated, butt-sewn seam provides the required strength and produces a smooth, uniform pipe wall around the full circumference of the tube.

A heat-bonded coating is extruded over the seam. Extruding hot coating onto the butt-sewn joint seals the outer seams of our MTubes. This seals the stitching and creates a permanent connection at the butt-sewn seam joint.

MTubes are available in 6- to 96-inch diameters. We produce our MTubes to meet your schedules and deadlines. When you encounter the unexpected, you'll appreciate our ability to react to short lead times.

Get your next CIPP project off to a great start, order high-quality MTubes from MTC.

For Quality on Demand, call us at 877-MTC-TUBE (877-682-8823).





Specifications for Cured-In-Place Pipe (CIPP) Tube

1. INTENT

1.1 This document provides specifications for the tube products used in the reconstruction of pipelines and conduits. Proper installation of a resin-impregnated flexible tube produces a tight forming product within the original conduit. The resin is cured using either hot water under hydrostatic pressure or steam pressure within the tube. The Cured-In-Place Pipe (CIPP) will be continuous and permanently fixed within the original pipe.

1.1.1 As installation conditions and experience and techniques differ greatly, Mississippi Textiles Corporation (MTC) excludes any warranty of any kind, express or implied, with respect to the goods sold hereunder as to merchantability, fitness for a particular purpose or any other matter with respect to the goods whether used alone or in combination with other products. MTC has not provided any design specifications; accordingly, MTC does not warrant the design.

2. REFERENCED DOCUMENTS

This specification references standards from the American Society for Testing and Materials, such as: ASTM F1216 (Rehabilitation of Existing Pipelines and Conduits by the Inversion and Curing of a Resin-Impregnated Tube) and ASTM F1743 (Rehabilitation of Existing Pipelines and Conduits by Pulled-In-Place Installation of Cured-In-Place Thermosetting Resin Pipe (CIPP)), which are made a part hereof by such reference and shall be the latest edition and revision thereof.

3. MATERIALS

3.1 Tube - The sewn Tube shall consist of one or more layers of absorbent non-woven felt fabric and shall meet the requirements of ASTM F1216, Section 5.1 or ASTM F1743, Section 5.2.1.

3.1.1 The Tube shall be manufactured to a size, as specified by the customer. Allowance should be made for circumferential stretching during inversion. Overlapped layers of felt in longitudinal seams that cause lumps in the final product shall not be utilized.

3.1.2 The outside layer of the Tube shall be coated with an impermeable, flexible membrane that will contain the resin and allow the resin impregnation (wet out) procedure to be monitored.

3.1.3 The Tube shall be homogeneous across the entire wall thickness containing no intermediate or encapsulated elastomeric layers. No material shall be included in the Tube that may cause delamination in the cured CIPP. No dry or unsaturated layers shall be evident in the wet out tube.

3.1.4 The wall color of the interior pipe surface of CIPP after installation shall be a relatively light, reflective color so that a clear examination with closed circuit television inspection equipment may be made.

3.1.5 Seams in the Tube shall be stronger than the non-seamed felt material.

3.2 Resin - The resin system shall satisfy the requirements of ASTM F1216 and ASTM F1743. The resin system shall produce a CIPP that will comply with the structural and chemical resistance requirements of the relevant ASTM standards.

4. STRUCTURAL REQUIREMENTS

4.1 The CIPP shall be designed by the customer as per ASTM F1216, Appendix X.1.

5. INSTALLATION

Tube Design, Installation and Cool Down shall be performed by the contractor in accordance with ASTM F1216 or ASTM F1743.

5.1 CIPP installation shall be in accordance with ASTM F1216, Section 7, or ASTM F1743, Section 6.

5.1.2 Curing is accomplished by utilizing hot water under hydrostatic pressure or pressurized steam in accordance with the resin manufacturer's recommended cure schedule.

5.1.3 Cool down shall be in accordance with ASTM F1216, Section 7, or ASTM F1743, Section 6.



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1/06 M004



MTube Handling Guidelines

Dry Tube Handling

Avoid handling equipment that can produce cuts or tears in the tube:

- Fork lifts
- Poor-condition pallets or roller beds
- Cables

Do not drag tube across rough ground or surfaces.

Do not walk across tube.

Store dry tube indoors if possible. If tube must be stored outdoors, keep covered to avoid exposure to sunlight. Move tube indoors for 24 hours if stored outside before wetout to ensure tube temperature is below 80 degrees during wetout.

All patches of MTube should be applied using a Drader gun and polypropylene welding rods.

Drader Guidelines

DISCLAIMER: These guidelines are general in nature. Because operator technique, training, and experience as well as field installation conditions all vary greatly, Mississippi Textiles Corp. (MTC) does not warrant or guarantee the results that may be achieved by the operator in following these guidelines.

WARNING! Drader guns produce high heat and the operator must handle with care to avoid burns and fire.

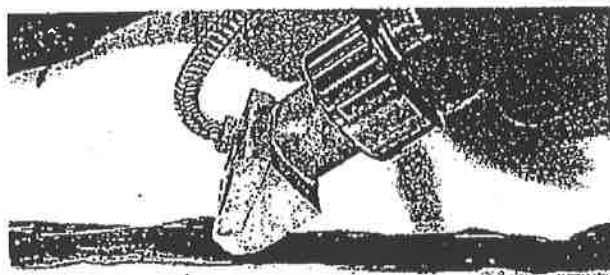
REQUIRED TOOLS AND MATERIALS

- Acetone
- Duct Tape
- Clean Rags
- Drader Gun (Welder)
- Modified Extruder Head (part number 3900002)
- Ice Filled Bag or Aerosol Refrigerant
- MTube™ (Tube)
- Pliers
- Razor Knife
- Silicone Rubber Roller
- Wire Brush (Brass)
- Tape Measure
- Polypropylene (PP) Welding Rods (part number 3600106)
- Digital Temperature Display (part number 3900046) with Thermocouple Wire (part number 3900045)
- Masking Tape

PROCESS STEPS

Equipment Start-Up and Preparation

- 1 Attach the modified extruder head to the hand-held weld gun.
- 2 The recommended welding head design includes a thermocouple mounted in the tip of the head that allows the melt temperature to be precisely measured. The gun temperature settings outlined in this work instruction reference the recommended temperature settings using the digital display attached to the thermocouple.
- 3 Set gun temperature to about 450° F.
- 4 Plug the welder into the appropriate electrical and pneumatic outlets and set power switch to "ON".
- 5 Allow the welder to warm up for several minutes until the red heating indicator cycles off, indicating the set temperature has been reached. Allow the unit to cycle on and off several times to ensure the temperature equalizes across the weld head.
- 6 Use the digital thermometer to verify the weld head reaches at least 450° F before attempting to weld. To ensure acceptable bonding, the temperature of the weld head should be maintained between 425° and 450° F throughout the welding process.



Check the extruder head to ensure it is clean and free of old, oxidized material, which typically appears as a brown crusty film. If necessary, clean the head using a wire brush (brass) or equivalent.

8 Trigger the extruder to purge any old material from the barrel until the flow of PP extrudate is clear and free of debris. Wipe excess PP extrudate off the extruder head tip using a clean cotton rag or dry polyester felt. **NOTE: Do not attempt to weld until the extrudate is clear in color.**

9 Ensure there is adequate welding rod to continuously feed into the gun. The length required will depend on the size of the repair being performed. **NOTE: DO NOT let the rod feed all the way into the feed tubes, as running the hand held extruder gun without rod may result in roller mechanism damage.**

10 Repeat this process before each repair.

Making a Weld

- 1 Prepare surface area for welding by removing all spray-on release agents (i.e. silicone, Teflon, etc.), dirt, resin, or other foreign matter from the area to be patched. Acetone applied to a dry rag can be used to dissolve and wipe away residual resin from the surface.
- 2 After cleaning, allow weld area to dry for 2-3 minutes before attempting to weld. The work area should be clean and dry before proceeding.
- 3 To begin the weld, while triggering, lightly touch the tip of the gun to the coating 1/2 inch to 1 inch before the area to be patched so the flat portion on the underside of the weld tip is in full contact with the coating.
- 4 Moving steadily across the patch area, the deposited material should be approximately 1/16 inch thick.
- 5 Once past the patch, continue to draw the weld bead across the surface approximately 1 inch beyond the repair while releasing the trigger.
- 6 Smooth the weld surface and edges using the silicone rubber roller and rolling from each end toward the middle, while applying light pressure.

IMPORTANT NOTE: There is an inherent tendency to use faster application speeds when welding catalyzed tubes. This may result in the applied extrudate being too thin or a poor bond between the extruded patch and the coating surface. It is important that a consistent application speed and thickness is used for all welding applications.

NOTE: Do not roll the molten material outside of the area of the original weld, as it will not stick, and the edge can be peeled from the coating.

Cooling The Weld

To minimize the risk associated with welding a tube impregnated with catalyzed resin, each welded area should be quickly cooled immediately after the weld. MTC recommends the application of ice bags to each patch or the use of an aerosol refrigerant to accelerate the cool-down process.



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CIPP TUBE WET OUT ROLLER GAP SETTINGS & RESIN VOLUMES



The following table includes the recommendation for the gap to be set distributing the resin uniformly throughout the length of the tube relative to the nominal tube thickness.

The volume of resin that is defined is a function of the gap roller spacing. The mass of the resin required for a tube wet out will be determined by the resin system density in pounds per gallon of material.

Diameter (in.)	6.00		8.00		10.00		12.00		15.00		18.00		24.00	
CIPP TUBE THICKNESS mm.	GAP mm.	RESIN gal./ft.	GAP mm.	RESIN gal./ft.	GAP mm.	RESIN gal./ft.	GAP mm.	RESIN gal./ft.	GAP mm.	RESIN gal./ft.	GAP mm.	RESIN gal./ft.	GAP mm.	RESIN gal./ft.
4.5	11	0.16	11	0.21	11	0.26	11	0.32	11	0.40	11	0.48	11	0.64
6.0	15	0.21	15	0.28	15	0.35	14	0.42	14	0.53	14	0.64	14	0.85
7.5			19	0.34	19	0.43	18	0.52	18	0.66	18	0.79	18	1.06
9.0					23	0.52	22	0.63	22	0.79	22	0.95	21	1.27
10.5							26	0.73	26	0.91	26	1.10	25	1.48
12.0									30	1.04	30	1.25	29	1.69
13.5									34	1.16	34	1.41	33	1.89
15.0									38	1.29	38	1.56	37	2.10
16.5											42	1.71	41	2.30
18.0													45	2.50
21.0													53	2.90

NOTE: For all other tube dimensions, please contact MTC for gap settings and resin yield quantities. DISCLAIMER OF WARRANTY: AS INSTALLATION CONDITIONS (INCLUDING, AMONG OTHERS, PIPE TYPE & CONDITION, GROUNDWATER DEPTH & TEMPERATURE, DEPTH OF COVER & SOIL TYPE, LIVE LOADS, SITE ACCESS AND WEATHER) AND INSTALLER EXPERIENCE, TECHNIQUES AND TYPE OF EQUIPMENT VARY GREATLY, MTC EXCLUDES ANY WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE GOODS SOLD HEREUNDER AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR USE OR ANY OTHER MATTER WITH RESPECT TO THE GOODS WHETHER USED ALONE OR IN COMBINATION WITH OTHER PRODUCTS.

Inversion and Curing Head Table

Pipe Diameter		CIPP Tube Thickness	Recommended Inversion/Curing Head		Maximum Heated Head		Maximum Cold Head	
in	mm		ft	m	ft	m	ft	m
6	152	4.5	20.1	6.1	34.1	10.4	68.1	20.8
6	152	6.0	26.8	8.2	45.4	13.8	90.8	27.7
8	203	4.5	15.1	4.6	25.6	7.8	51.1	15.6
8	203	6	20.1	6.1	34.1	10.4	68.1	20.8
8	203	7.5	25.1	7.6	42.6	13.0	85.2	26.0
10	254	6	16.1	4.9	27.3	8.3	54.5	16.6
10	254	7.5	20.1	6.1	34.1	10.4	68.1	20.8
10	254	9	24.1	7.3	40.9	12.5	81.7	24.9
12	305	6	13.4	4.1	22.7	6.9	45.4	13.8
12	305	7.5	16.7	5.1	28.4	8.7	56.8	17.3
12	305	9	20.1	6.1	34.1	10.4	68.1	20.8
12	305	10.5	23.4	7.1	39.8	12.1	79.5	24.2
15	381	7.5	13.4	4.1	22.7	6.9	45.4	13.8
15	381	9	16.1	4.9	27.3	8.3	54.5	16.6
15	381	10.5	18.7	5.7	31.8	9.7	63.6	19.4
15	381	12	21.4	6.5	36.3	11.1	72.7	22.1
18	457	7.5	11.2	3.4	18.9	5.8	37.8	11.5
18	457	9	13.4	4.1	22.7	6.9	45.4	13.8
18	457	10.5	15.6	4.8	26.5	8.1	53.0	16.1
18	457	12	17.8	5.4	30.3	9.2	60.6	18.5
18	457	15	22.3	6.8	37.9	11.5	75.7	23.1
21	533	9	11.5	3.5	19.5	5.9	38.9	11.9
21	533	10.5	13.4	4.1	22.7	6.9	45.4	13.8
21	533	12	15.3	4.7	26.0	7.9	51.9	15.8
21	533	13.5	17.2	5.2	29.2	8.9	58.4	17.8
21	533	15	19.1	5.8	32.5	9.9	64.9	19.8
21	533	18	22.9	7.0	38.9	11.9	77.9	23.7
24	610	9	10.0	3.1	17.0	5.2	34.1	10.4
24	610	10.5	11.7	3.6	19.9	6.1	39.7	12.1
24	610	12	13.4	4.1	22.7	6.9	45.4	13.8
24	610	13.5	15.1	4.6	25.6	7.8	51.1	15.6
24	610	15	16.7	5.1	28.4	8.7	56.8	17.3
24	610	16.5	18.4	5.6	31.2	9.5	62.4	19.0
24	610	18	20.1	6.1	34.1	10.4	68.1	20.8
24	610	19.5	21.8	6.6	36.9	11.3	73.8	22.5
24	610	21	23.4	7.1	39.8	12.1	79.5	24.2

Inversion and Curing Head Table

Pipe Diameter		CIPP Tube Thickness	Recommended Inversion/Curing Head		Maximum Heated Head		Maximum Cold Head	
in	mm	mm	ft	m	ft	m	ft	m
27	686	10.5	10.4	3.2	17.7	5.4	35.3	10.8
27	686	12	11.9	3.6	20.2	6.2	40.4	12.3
27	686	13.5	13.4	4.1	22.7	6.9	45.4	13.8
27	686	15	14.9	4.5	25.2	7.7	50.5	15.4
27	686	16.5	16.4	5.0	27.8	8.5	55.5	16.9
27	686	18	17.8	5.4	30.3	9.2	60.6	18.5
27	686	19.5	19.3	5.9	32.8	10.0	65.6	20.0
27	686	21	20.8	6.3	35.3	10.8	70.6	21.5
27	686	22.5	22.3	6.8	37.8	11.5	75.7	23.1
27	686	24	23.8	7.3	40.4	12.3	80.7	24.6
30	762	12	10.7	3.3	18.2	5.5	36.3	11.1
30	762	13.5	12.0	3.7	20.4	6.2	40.8	12.5
30	762	15	13.4	4.1	22.7	6.9	45.4	13.8
30	762	16.5	14.7	4.5	25.0	7.6	50.0	15.2
30	762	18	16.1	4.9	27.3	8.3	54.5	16.6
30	762	19.5	17.4	5.3	29.5	9.0	59.0	18.0
30	762	21	18.7	5.7	31.8	9.7	63.6	19.4
30	762	22.5	20.1	6.1	34.1	10.4	68.1	20.8
30	762	24	21.4	6.5	36.3	11.1	72.7	22.1
33	838	12	9.7	3.0	16.5	5.0	33.0	10.1
33	838	13.5	11.0	3.3	18.6	5.7	37.2	11.3
33	838	15	12.2	3.7	20.7	6.3	41.3	12.6
33	838	16.5	13.4	4.1	22.7	6.9	45.4	13.8
33	838	18	14.6	4.5	24.8	7.6	49.5	15.1
33	838	19.5	15.8	4.8	26.8	8.2	53.7	16.4
33	838	21	17.0	5.2	28.9	8.8	57.8	17.6
33	838	22.5	18.3	5.6	31.0	9.4	61.9	18.9
33	838	24	19.5	5.9	33.0	10.1	66.1	20.1
33	838	25.5	20.7	6.3	35.1	10.7	70.2	21.4
33	838	27	21.9	6.7	37.2	11.3	74.3	22.6
36	914	12	8.9	2.7	15.1	4.6	30.3	9.2
36	914	13.5	10.0	3.1	17.0	5.2	34.1	10.4
36	914	15	11.2	3.4	18.9	5.8	37.8	11.5
36	914	16.5	12.3	3.7	20.8	6.3	41.6	12.7
36	914	18	13.4	4.1	22.7	6.9	45.4	13.8
36	914	19.5	14.5	4.4	24.6	7.5	49.2	15.0
36	914	21	15.6	4.8	26.5	8.1	53.0	16.1
36	914	22.5	16.7	5.1	28.4	8.7	56.8	17.3
36	914	24	17.8	5.4	30.3	9.2	60.6	18.5
36	914	25.5	19.0	5.8	32.2	9.8	64.3	19.6
36	914	27	20.1	6.1	34.1	10.4	68.1	20.8
36	914	28.5	21.2	6.5	36.0	11.0	71.9	21.9
36	914	30	22.3	6.8	37.9	11.5	75.7	23.1



Worldwide Operations
Atlanta, Georgia

Global Service Network
Over 100 Countries

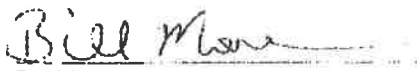
For more information
call 1-800-451-1000
or visit our website at
www.insituform.com

October 13, 2006

To Mississippi Textiles Corporation

Insituform Technologies, Inc. (ITI) heretby certifies that the CIPP liners being manufactured under the MTube label for Mississippi Textiles Corporation (MTC) are of identical physical and chemical composition as the Insitutube manufactured by the ITI facility in Batesville, Mississippi. The only difference between MTube CIPP liners and Insitutube CIPP liners is the ink jet printed label Furthermore, Insituform Technologies, Inc certifies that the materials used in the manufacturing of MTube for MTC have been tested and meet the CIPP chemical resistance requirements of the Greenbook "Pickle Jar Test". The testing was conducted using the same resin and liner materials that were tested and approved by the City of Los Angeles, Department of General Services, Lab No. 98-514-2, reported on August 22, 1997. Copies of the test results are attached.

INSITUFORM TECHNOLOGIES, INC.


Bill Moore
Material Manager