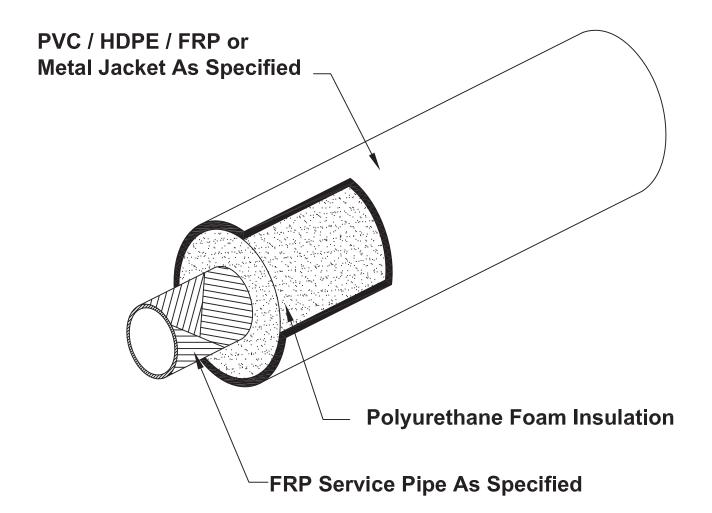
TRICON FRP PIPE SYSTEM



For Applications Up To 250° F Below And Above Ground

- □ Chilled Water
- □ Condensate
- □ Fuel Oil

- □ Heating Hot Water
- □ Potable Water
- □ Process Piping
- □ Waste Water





P.O. Box 361, Canastota, New York 13032 Tel: 315.697.8787 Fax: 315.697.8788

TABLE 1

Pipe	Minimum	PVC	PVC
Size	Insulation	Jacket	Jacket
	Thickness	O.D.	Wall
2"	1.81"	6.14"	.070"
3"	1.25"	6.14"	.070"
4"	1.75"	8.16"	.080"
6"	1.69"	10.20"	.100"
8"	1.69"	12.24"	.120"
10"	1.63"	14.32"	.140"
12"	1.47"	16.00"	.160"

Service Pipe:

The service pipe can be filament wound fiberglass-reinforced epoxy, bell and spigot, designed to withstand up to 250°F. Pipe sizes 2" through 8" may be supplied in 20 Ft. random lengths. Pipe sizes 10" through 16" to be supplied in 40 Ft. lengths. Straight lengths of piping will be supplied with 6" of piping exposed at each end for field joint fabrication.

Insulation:

The insulation shall be a foamed in place closed cell polyurethane which completely fills the annular space between the carrier pipe and the exterior casing. The insulation shall have the following physical properties:

Minimum Density (lb./cu. ft.) 2.0 ASTM D-1622 "K" Factor BTU/Hr. sq. ft. °F/in. .16 ASTM C-177 90-95 % Closed Cell ASTM D-2856

Exterior Casing:*

The exterior casing shall be

(1)Seamless, extruded white **PVC** Type 1, Grade 1 and Class 12454-B per ASTM D-1784 or

(2)High Density Polyethylene (H.D.P.E.) ASTM D-1248 with the following physical properties:

ASTM D-3350......Resin Type III, Grade P34
ASTM D-638......Tensile Yield Strength 3300 psi
ASTM D-638......Ultimate Elongation 850%
ASTM D-790...Tangent Flexural Modules 175,000 psi

No polyethylene tape casings will be allowed.

Sub-Assemblies:

Any requirement for thrust blocking is the responsibility of the design engineer. Fittings that do not require restraint blocks should be field insulated. Fittings that require restraint blocks must have blocks designed by the design engineer. FRP pipe should be joined to steel systems with flanges. All steel systems should be anchored within five feet of connection point to eliminate any thrust, stress, or torque from being transferred to the FRP from the steel.

TABLE 2

	Minimum	HDPE	HDPE
Pipe	Insulation	Jacket	Jacket
Size	Thickness	O.D.	Wall
2"	2.00"	6.63"	.150"
3"	1.43"	6.63"	.150"
4"	1.58"	8.00"	.150"
6"	1.51"	10.00"	.175"
8"	1.73"	12.43"	.175"
10"	1.48"	14.06"	.175"
12"	1.39"	15.87"	.175"

Field Joints:

After joining and hydrostatic testing, PVC jacketed straight field joints shall be insulated with polyurethane foam to the thickness specified, PVC sleeve and pressure sensitive tape. HDPE jackets will use polyurethane foam and a heat shrinkable sleeve.

Installation:

No Piping shall be installed in standing water. Trenches shall be maintained dry until final field closure is complete. The installing contractor shall handle the piping system in accordance with the directions furnished by the manufacturer and as approved by the architect and engineer. The carrier piping shall be hydrostatically tested as specified in the contract documents.

EXERCISE DUE CARE WHEN INSTALLING AND TESTING THE PIPING SYSTEM.
DO NOT TEST WITH AIR OR GAS.

Backfill:

A 4-inch layer of sand or fine gravel, less than ½" in diameter, shall be placed and tamped in the trench to provide uniform bedding for the **TRICON FRP** system. Once the system is in place, the trenches shall be carefully backfilled with similar material and hand tamped in 6" layers until a minimum of 12" above the top of the preinsulated pipe has been achieved. The remainder of the backfill shall be void of rocks, frozen earth and foreign material. The trench shall be compacted to comply with H-20 Highway loading.

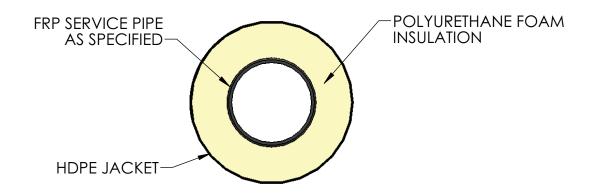
Accessories:

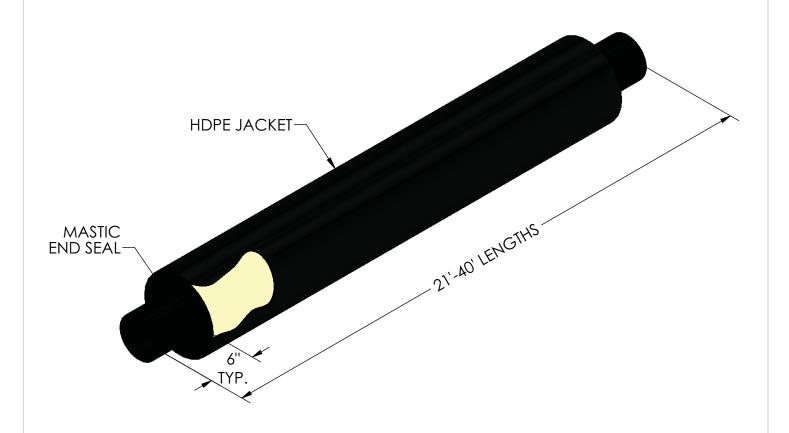
Heat Tracing

System Options:

- Contact your Tricon representative for available sizes and system options.
- Optional metallic casings for above ground applications include, Spiral Lockseam in Galvanized, Aluminum or Stainless Steel.
- * Optional non-metallic casings for below grade offered include. Filament Wound FRP.

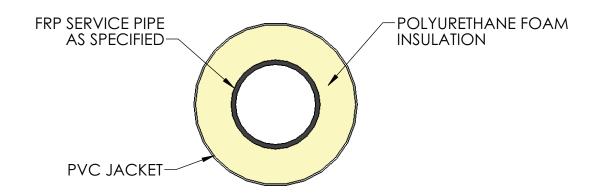
Tricon Piping Systems, Inc.
P.O. Box 361
Canastota, NY 13032
Tel: 315-697-8787
Fax: 315-697-8788
www.triconpiping.com

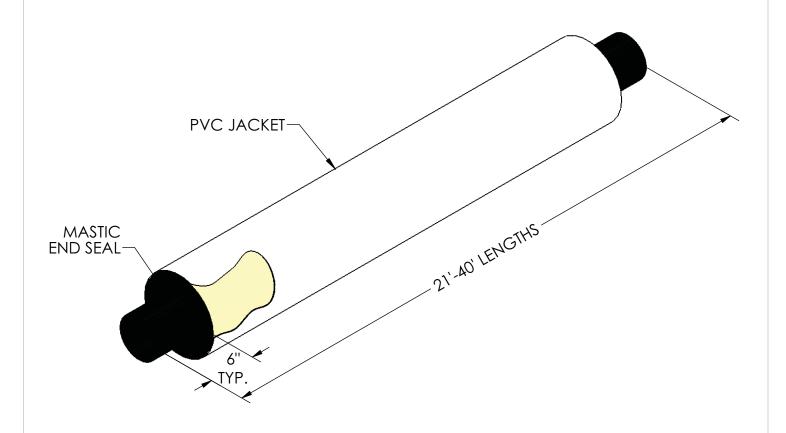






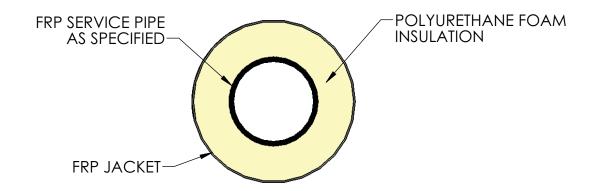
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PRODUCT TRICON FRP		SIZE	scale NTS	11/01/2016
		DWG. N	o. RP-1	SHEET

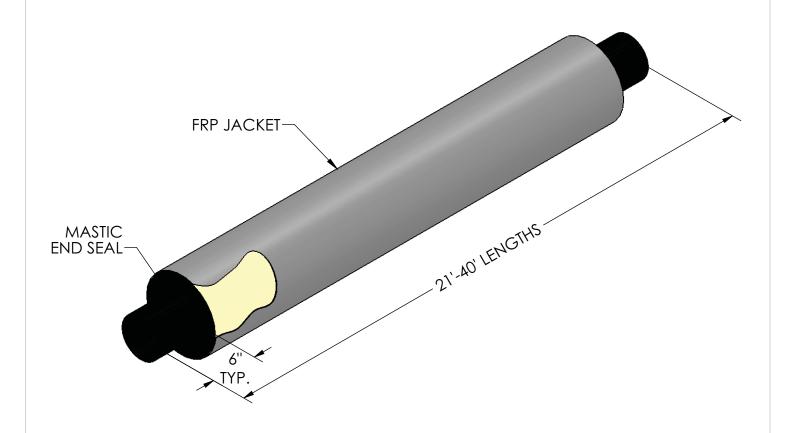






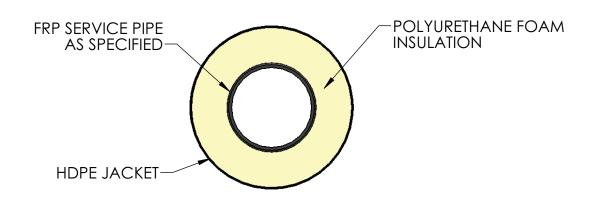
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PRODUCT	TDICON FDD	SIZE		11/01/2016	
TRICON FRP		DWG. NO	o. RP-1	SHEET	

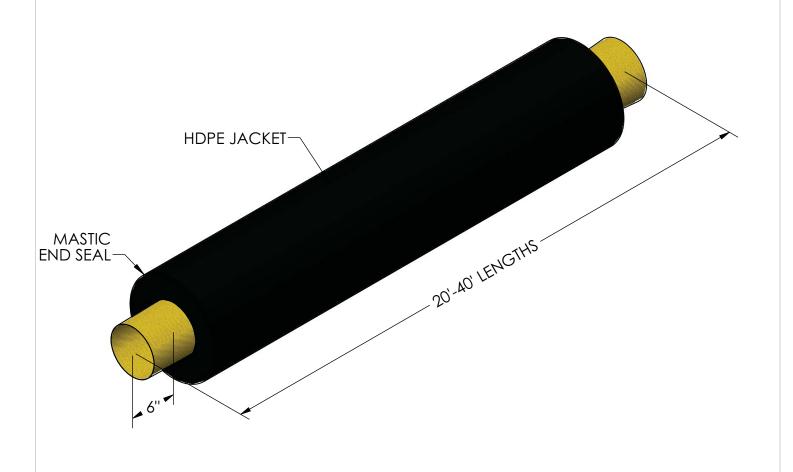






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PRODUCT TRICON EDD		SIZE	scale NTS	11/01/2016		
	TRICON FRP	DWG. NO	o. ?P-1	SHEET		



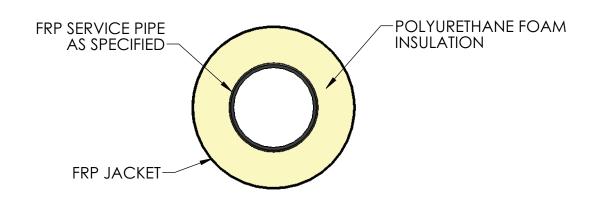


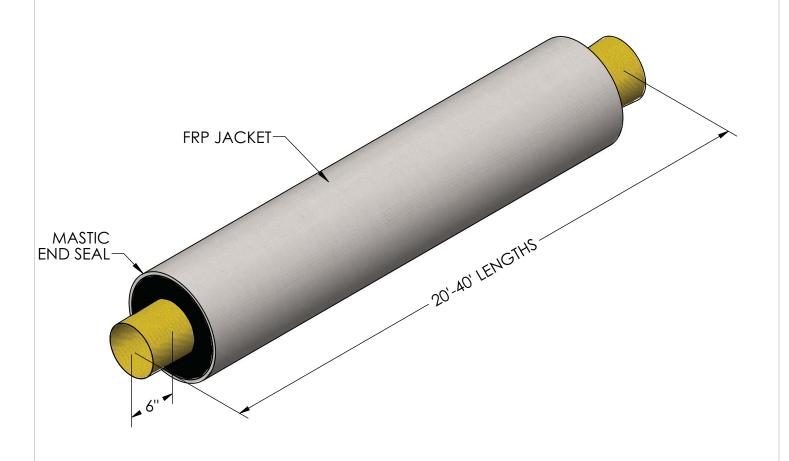


	SHEET TITLE	STRAIGHT LENGTH DETAIL (BELL x PLAIN END)
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PRODUCT

SIZE	scale NTS	11/01/2016
DWG. NC). P-1	SHEET



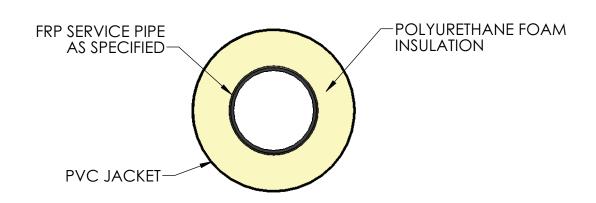


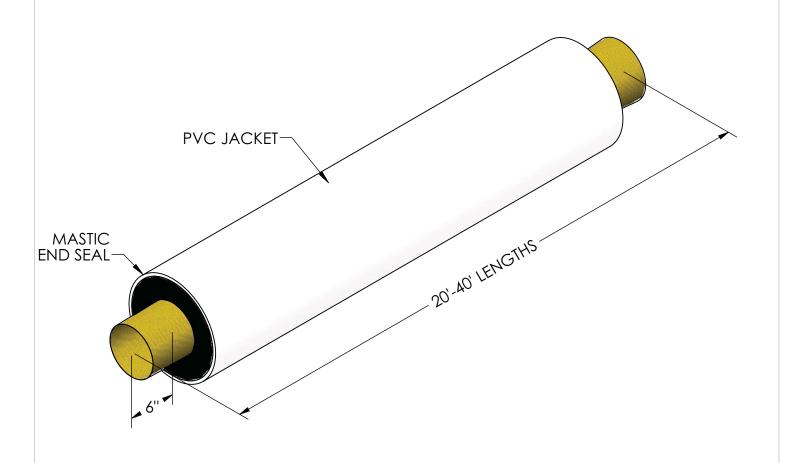


SHEET TITLE	STRAIGHT LENGTH DETAIL (BELL x PLAIN END)
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PRODUCT

SIZE	scale NTS	11/01/2016
DWG. NC). P-1	SHEET

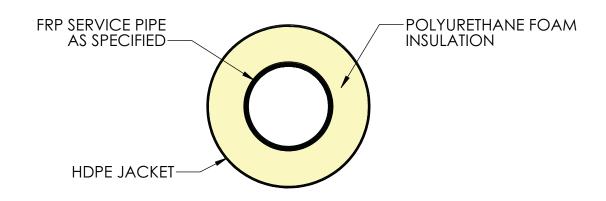


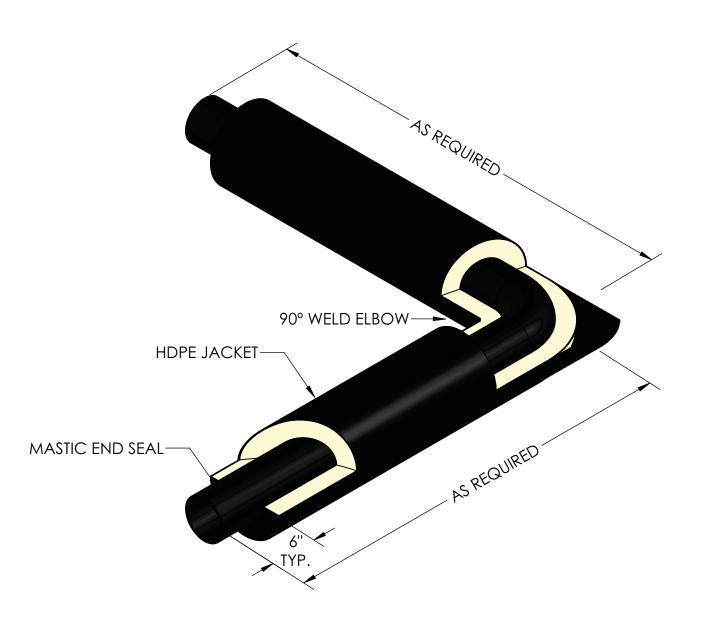




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PRODUCT		SIZE	SCALE	D

SIZE	scale NTS	11/01/2016
DWG. NC). P-1	SHEET



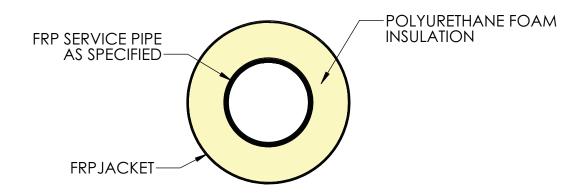


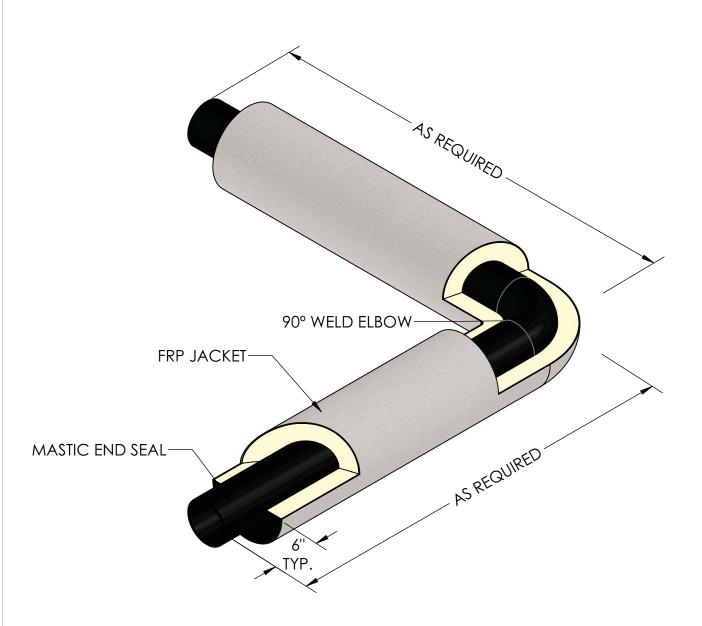


PRE-FABRICATED 90-DEGREE ELBOW DE	TAIL
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PRODUCT

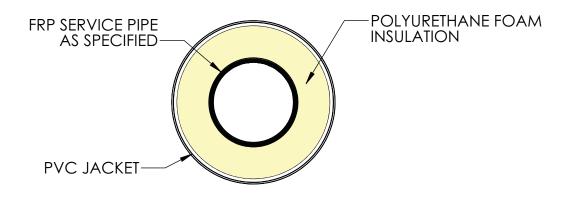
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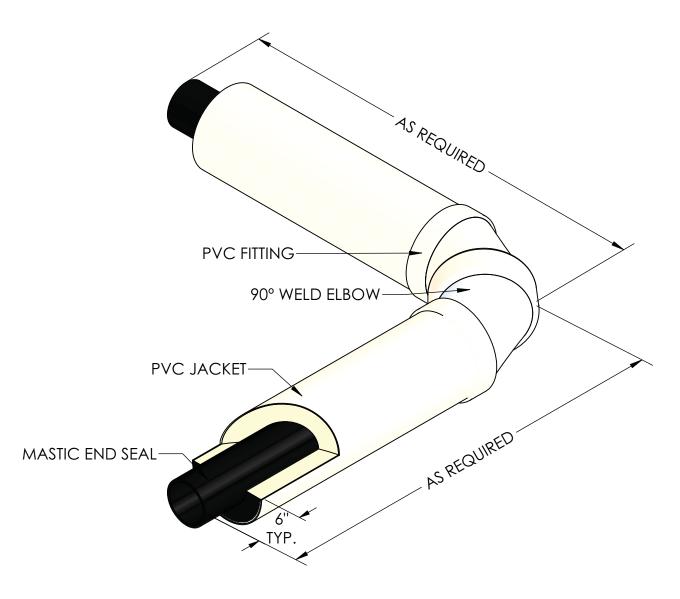






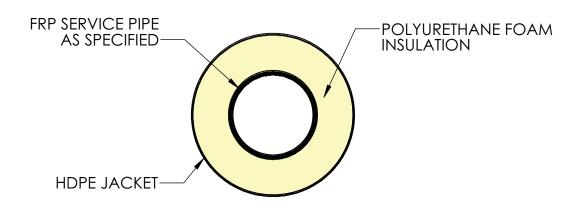
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	INIO OTVINI	DWG. NO). P-2	SHEET	

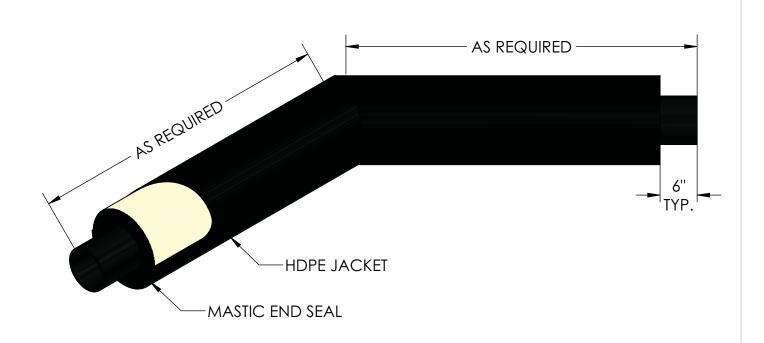


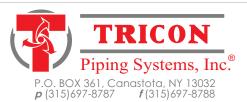




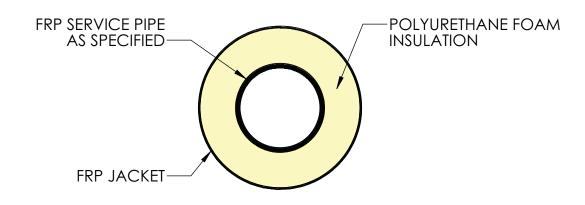
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		MOONTH	DWG. NO	o. RP-2	SHEET

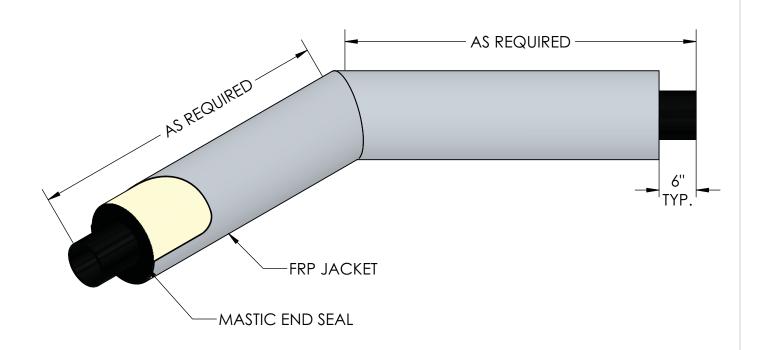






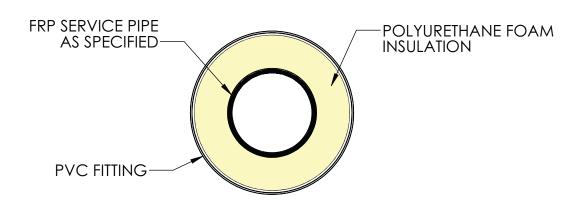
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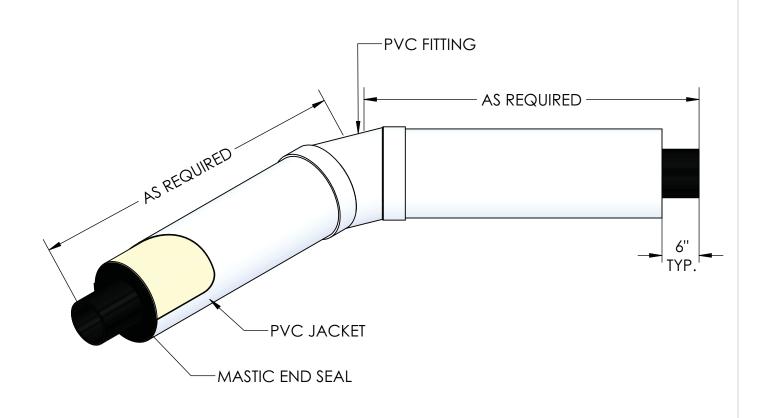






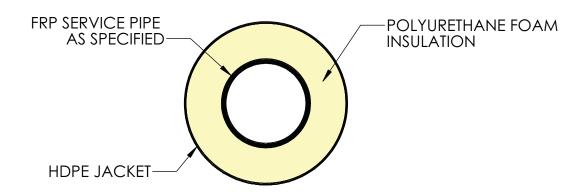
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PRODUCT	TRICON FRP	SIZE	00, 122	12/01/2016	
		Meerrin	DWG. NO	o. RP-3	SHEET

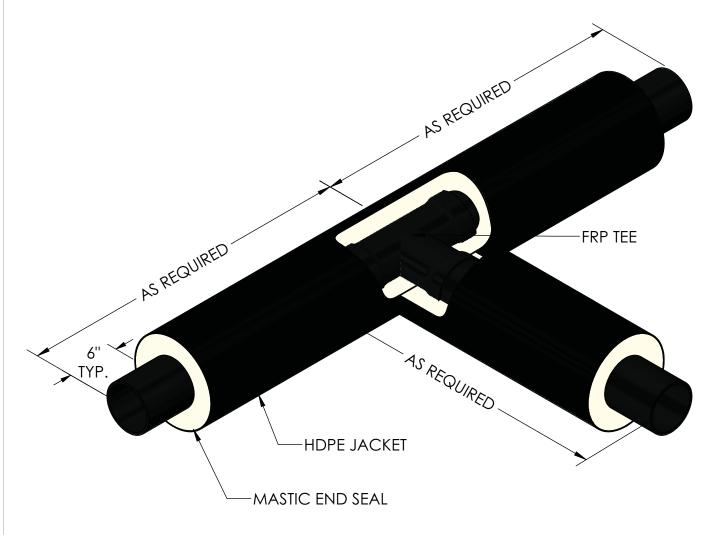






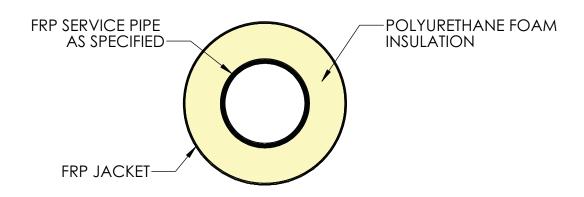
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PRODUCT	TDICON FDD	SIZE		12/01/2016
	TRICON FRP		o. RP-3	SHEET

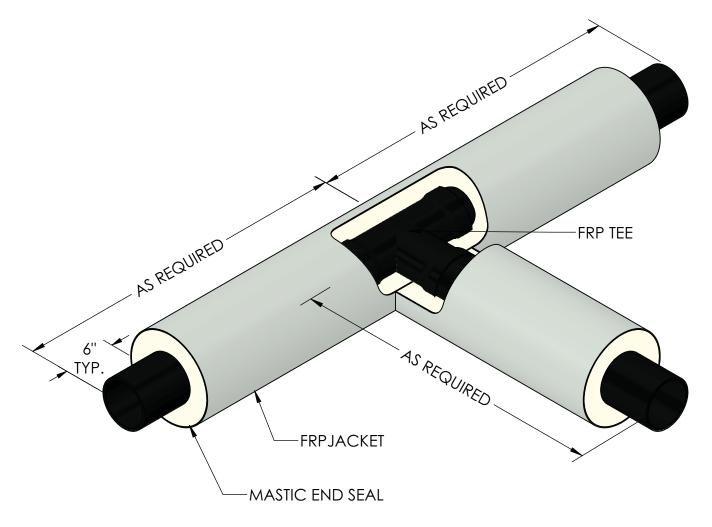






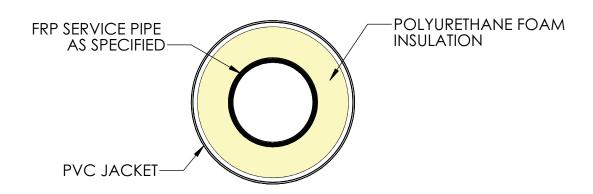
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PRODUCT TRICON FRP	TRICON FRP	SIZE		12/01/2016		
	MOONTH	DWG. NO	o. RP-4	SHEET		

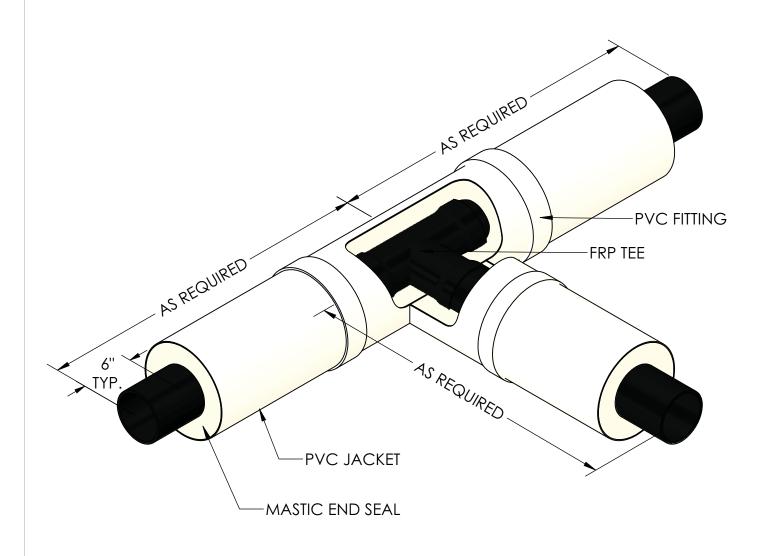






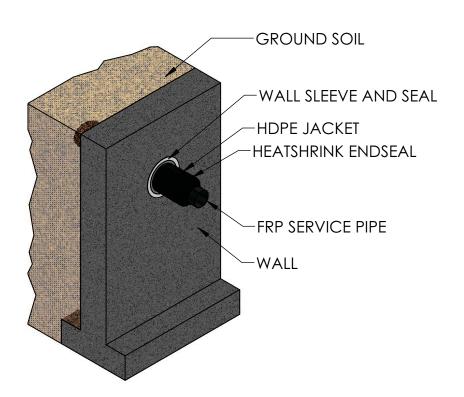
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PRODUCT	TRICON FRP	SIZE	SCALE NTS	12/01/2016				
	IRICON FRF	DWG. N	o. RP-4	SHEET				



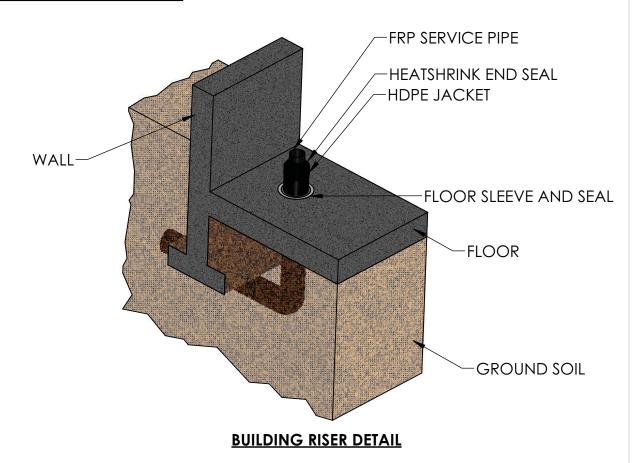




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PRODUCT	TRICON FRP	SIZE	SCALE NTS	12/01/2016			
	THE STATE	DWG. NO	o. RP-4	SHEET			

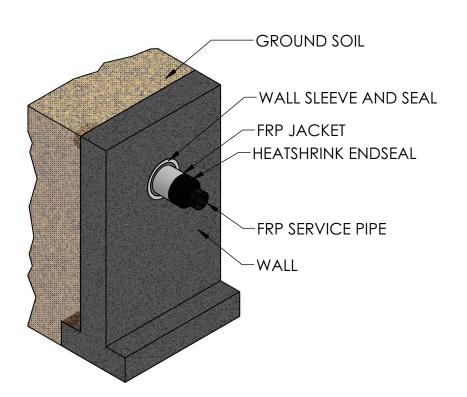


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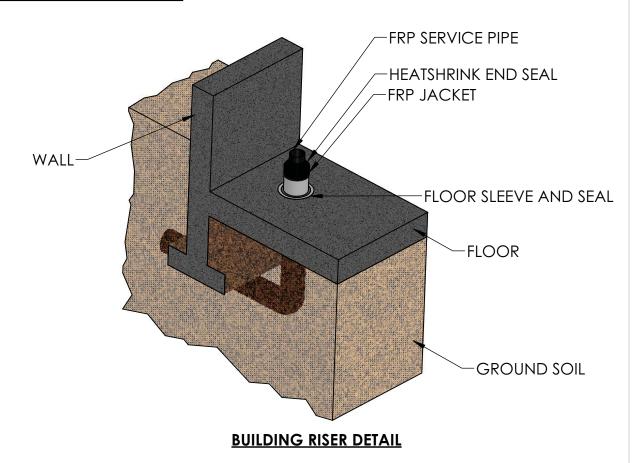




HEAT SHRINK END SEAL DETAIL									
PRODUCT	TRICON FRP		SIZE	scale NTS					
IRICON FRP			DWG. NO	o. P-5	SHEET				

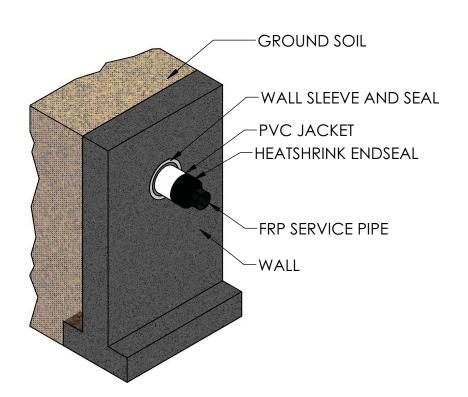


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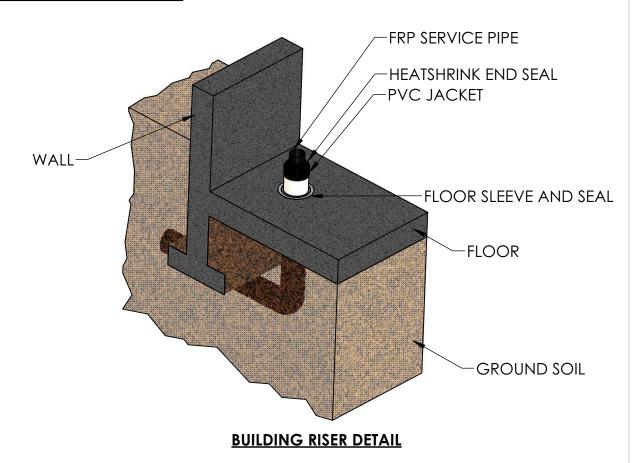




HEAT SHRINK END SEAL DETAIL									
PRODUCT	TRICON FRP		SIZE	scale NTS					
IRICON FRP			DWG. NO	o. P-5	SHEET				



WALL PENETRATION DETAIL





	SHEET TITLE	SHEET TITLE HEAT SHRINK END SEAL DETAIL								
	PRODUCT	TRICON FRP		SIZE	SCALE NTS	12/01/16				
	INICONTRI		DWG. NO	o. R P-5	SHEET					







The field joint kit includes:

1. Urethane pipe covering (3-ft sections)

2. Shrink Sleeve materials

3. Split HDPE Rockshield (18" long)



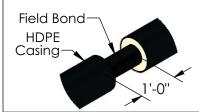




Equipment List:

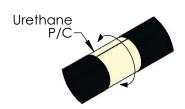
Hand saw, razor knife, propane tank, torch, and safety glasses.

STEP #2: Join Service Pipe



After field bonding with coupling & adhesive, test/check the service pipe as required.

STEP #3: Apply Insulation



Make sure the pipe and casing are clean and dry. Cut the polyurethane foam half-shells to length using a hand saw. Fit the urethane to contours of service pipe by rotating the half-shells back and forth until they seat properly. Secure the urethane into place. Some trimming may be required for a tight fit.

STEP #4: Apply Shrink Sleeve



Remove release liner and place shrink sleeve around pipe insulation. Gently heat backing of sleeve and closure. Do not get dirt onto inside of shrink sleeve. Overlap sleeve at the 10 and 2 o'clock positions. Press the closure firmly into place. Gently heat closure and pat down.

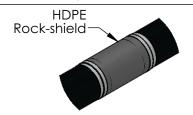
STEP #5: Heat the Shrink Sleeve



With a yellow flame, heat the shrink sleeve from the middle toward each side of the sleeve until recovery is complete. Remove any wrinkles or trapped air by working them from the center outward using the roller. Shrinking has been completed when adhesive oozes from the sides.

Note: Avoid excessive heat to overlap area.

STEP #6: Inspect Shrink Sleeve & Apply Rockshield



After shrink sleeve has cooled, inspect the sleeve to ensure full contact with casing and that adhesive has flowed at 360° beyond both sleeve edges. Make sure no cracks or holes appear on the sleeve. Install HDPE rockshield over shrink sleeve with a minimum 2" overlap over sleeve and secure in place.



SHEET TITLE

FIELD JOINT KIT (RIGID FOAM) WITH HDPE CASING DETAIL

PRODUCT

TRICON FRP

SIZE SC

SCALE DATE
NTS 11/

11/01/2016

DWG. NO.

FRP-6H







The field joint kit includes:

1. Urethane pipe covering (3-ft sections)

2. PVC Sleeve (18" long)

3. Pressure-sensitive tape

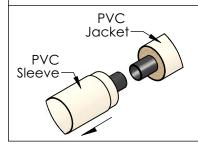






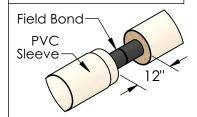
Equipment List: Hand saw, razor knife, and safety glasses

STEP #2: Prepare PVC Sleeve



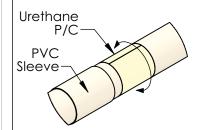
Prior to bonding service pipe, slide PVC sleeve over casing and move away from bond point to prevent damage.

STEP #3: Join Service Pipe



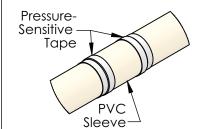
Bond service pipe and test/check all welds as required.

STEP #4: Apply Insulation



Make sure the pipe and casing are clean and dry. Cut the polyurethane foam half-shells to length using a hand saw. Fit the urethane to contours of service pipe by rotating the half-shells back and forth until they seat properly. Secure the urethane into place.

STEP #5: Seal Casing



Slide PVC sleeve into the center of joint over insulation. Apply a wrap of pressure- sensitive tape around both areas were casing and sleeve meet. Allow 2" overlap of tape onto both surfaces.

Note: In colder weather, tape must be kept warm until time of use.



SHEET TITLE

FIELD JOINT KIT (RIGID FOAM) WITH PVC CASING DETAIL

PRODUCT

SCALE NTS

DATE 11/01/2016

DWG. NO.

SIZE

FRP-6P







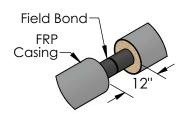
The field joint kit includes:

- Urethane pipe covering (3-ft sections)
- Split FRP Sleeve (12" long)
- 2. FRP Mat (6" wide), sandpaper, resin, catalyst, and roller



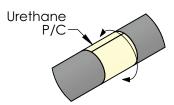
Equipment List: Hand saw, razor knife, gloves, and safety glasses.

STEP #2: Join Service Pipe



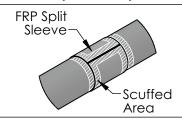
Bond the service pipe and test/check all welds as required.

STEP #3: Apply Insulation



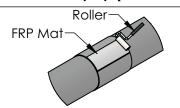
Make sure the pipe and casing are clean and dry. Cut the polyurethane foam half-shells to length using a hand saw. Fit the urethane to contours of service pipe by rotating the half-shells back and forth until they seat properly. Secure the urethane into place.

STEP #4: Prepare FRP Split Sleeve



Place FRP split sleeve around the insulation with the horizontal split at the 10 o'clock position. Create a good binding surface for the hand lay-up by scuffing the ends of the FRP sleeve and jacket.

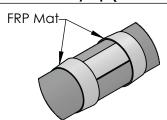
STEP #5: FRP Lay-up (Horizontal)



Mix 1/2 gallon of FRP resin with 1/2 ounce of catalyst and stir. It is imperative that you have a good mix between resin and catalyst. Take four (4) layers of precut 6" wide fiberglass mat and saturate with FRP resin. Place over the split of the FRP sleeve. Roll into place with FRP roller until mat lies flat and there are no air bubbles.

Note: Warmer temperatures will accelerate reaction time.

STEP #6: FRP Lay-up (Circumferential)



Repeat Step #5 for the two circumferential joints to seal the FRP sleeve to the casina.



SHEET TITLE

FIELD JOINT KIT (RIGID FOAM) WITH FRP CASING DETAIL

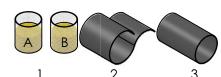
PRODUCT

TRICON FRP

SIZE SCALE DATE NTS 11/01/2016 А

DWG. NO.

FRP-6F



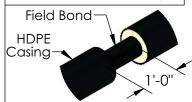
One field joint kit includes:

- Liquid Urethane Foam Materials
- Shrink Sleeve Materials
- Split HDPE Rockshield (18" long)



Hand saw, razor knife, propane tank, torch, drill, safety glasses, and gloves

STEP #2: Join Service Pipe



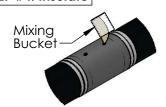
Bond the service pipe and test/check all welds as required.

STEP #3: Ready The Mold



Place HDPE mold/rockshield into the center of the joint and wrap seams tightly with duct tape. Drill two (2) 1" holes into the top of the HDPE mold/rockshield for introduction of polyurethane foam mixture.

STEP #4: Insulate



Refer to the chart for the foam amount based on the jacket size. Mix "A" and "B" in a bucket and pour foam into opening. When the foam reacts, temporarily seal the opening with duct tape. Allow 4-5 minutes for reaction to take place.

Note: Required proportions may vary based on weather conditions and foam thickness (chart based on $1\frac{1}{2}$ " nominal insulation thickness). Contact your Tricon representative for more information.

Jacket Size (In.)	"A" (Oz.)	"B" (Oz.)
3	3	3
4	4	4
5	5	5
6	6	6
8	8	8
10	10	10
12	12	12
14	14	14
16	16	16

STEP #5: Apply Shrink Sleeve



After reaction has taken place, trim off any excess foam and remove HDPE mold/rockshield from joint.

Remove release liner and place shrink sleeve around pipe insulation. Gently heat backing of sleeve and closure. Overlap sleeve at the 10 and 2 o'clock positions. Press the closure firmly into place. Gently heat closure and pat down.

STEP #6: Heat the Shrink Sleeve



With a yellow flame, heat the shrink sleeve from the middle toward each side of the sleeve until recovery is complete. Remove any wrinkles or trapped air by working them from the center outward using the roller. Shrinking has been completed when adhesive oozes from the sides.

Note: Avoid excessive heat to overlap area.

STEP #7: Inspect Shrink Sleeve & Apply Rockshield

f(315)697-8788



After shrink sleeve has cooled, inspect the sleeve to ensure full contact with casing and adhesive has flowed beyond both sleeve edges. Make sure no cracks or holes appear on the sleeve. Install HDPE Mold/Rockshield over shrink sleeve with a minimum 2" overlap over sleeve and secure in place.



SHEET TITLE

FIELD JOINT KIT (LIQUID FOAM) WITH HDPE CASING DETAIL

PRODUCT

TRICON FRP

SIZE SCALE NTS Α

12/01/2016

DWG. NO.

FRP-7H

DATE





2.



3.



Liquid Urethane Foam Materials PVC Sleeve (18" long) 3. Pressure-sensitive tape

The field joint kit includes:



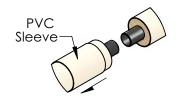






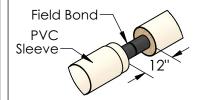
Equipment List Razor knife, drill, gloves, and safety glasses.

STEP #2: Prepare PVC Sleeve



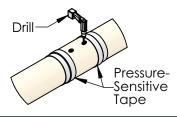
Prior to bonding service pipe, slide PVC sleeve over casing and move away from bond point to prevent damage.

STEP #3: Join Service Pipe



Bonding service pipe and test/check all welds as required.

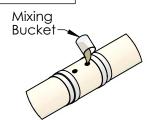
STEP #4: Apply Sleeve and Cut Hole



Slide PVC sleeve into the center of the joint and secure into place. Drill two (2) 1" holes into the top of the PVC sleeve for introduction of polyurethane foam mixture.

Apply a wrap of pressure-sensitive tape around both areas were casing and sleeve meet. Allow 2" overlap of tape onto both surfaces.

STEP #5: Insulate

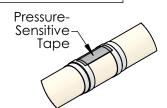


Refer to the chart for the foam amount based on the jacket size. Mix "A" and "B" in a bucket and pour foam into opening. When the foam reacts, temporarily seal the opening with duct tape. Allow 4-5 minutes for reaction to take place.

Note: Required proportions may vary based on weather conditions and foam thickness (chart based on $1\frac{1}{2}$ " nominal insulation thickness). Contact your Tricon representative for more information.

Jacket Size (In.)	"A" (Oz.)	"B" (Oz.)	
3	3	3	
4	4	4	
5	5	5	
6	6	6	
8	8	8	
10	10	10	
12	12	12	
14	14	14	
16	16	16	

STEP #6: Trim and Seal



Trim off excess material after curing is complete. Apply additional pressure sensitive tape over hole in PVC sleeve. Additional wraps may be required to ensure a water-tight seal.

SHEET TITLE

FIELD JOINT KIT (LIQUID FOAM) WITH PVC CASING DETAIL

TRICON

PRODUCT

TRICON FRP

SIZE А

DATE SCALE NTS

12/01/2016

DWG. NO.

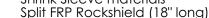
FRP-7P

Piping Systems, Inc.



One field joint kit includes:

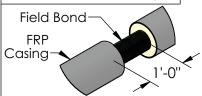
- Liquid Urethane Foam Materials
- 2. Shrink Sleeve materials





Hand saw, razor knife, propane tank, torch, drill, safety glasses, and gloves

STEP #2: Join Service Pipe



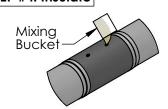
Bond the service pipe and test/check all welds as required.

STEP #3: Ready The Mold



Place FRP mold/rockshield into the center of the joint and wrap seams tightly with duct tape. Drill two (2) 1" holes into the top of the FRP mold/rockshield for introduction of polyurethane foam mixture.

STEP #4: Insulate



Refer to the chart for the foam amount based on the jacket size. Mix "A" and "B" in a bucket and pour foam into opening. When the foam reacts, temporarily seal the opening with duct tape. Allow 4-5 minutes for reaction to take place.

Note: Required proportions may vary based on weather conditions and foam thickness (chart based on $1\frac{1}{2}$ " nominal insulation thickness). Contact your Tricon representative for more information.

Jacket Size (In.)	"A" (Oz.)	"B" (Oz.)
3	3	3
4	4	4
5	5	5
6	6	6
8	8	8
10	10	10
12	12	12
14	14	14
16	16	16

STEP #5: Apply Shrink Sleeve



After reaction has taken place, trim off any excess foam and remove HDPE mold/rockshield from joint.

Remove release liner and place shrink sleeve around pipe insulation. Gently heat backing of sleeve and closure. Overlap sleeve at the 10 and 2 o'clock positions. Press the closure firmly into place. Gently heat closure and pat down.

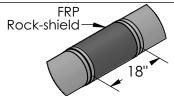
STEP #6: Heat the Shrink Sleeve



With a yellow flame, heat the shrink sleeve from the middle toward each side of the sleeve until recovery is complete. Remove any wrinkles or trapped air by working them from the center outward using the roller. Shrinking has been completed when adhesive oozes from the sides.

Note: Avoid excessive heat to overlap area.

STEP #7: Inspect Shrink Sleeve & Apply Rockshield



After shrink sleeve has cooled, inspect the sleeve to ensure full contact with casing and adhesive has flowed beyond both sleeve edges. Make sure no cracks or holes appear on the sleeve. Install FRP Mold/Rockshield over shrink sleeve with a minimum 2" overlap over sleeve and secure in place.



SHEET TITLE

FIELD JOINT KIT (LIQUID FOAM) WITH FRP CASING DETAIL

PRODUCT

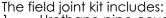
TRICON FRP

SIZE SCALE DATE NTS 12/01/2016 Α DWG. NO.

FRP-7F







- Urethane pipe covering (3-ft sections)
- Urethane Elbow
- 2. 3. PVC Extenders PVC Cover
- 4.
- Pressure-sensitive Tape

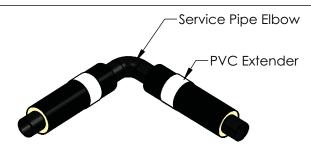




Equipment List:

Razor knife, Handsaw, and safety glasses.

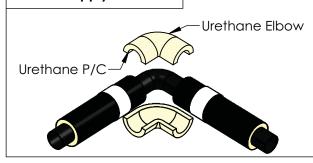
STEP #2: Place PVC Extenders and Join Service Pipe



Prior to bonding service pipe, slide PVC extenders over casing and move away from bonding point to prevent damage.

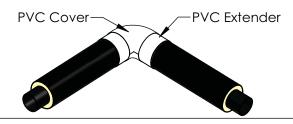
Bond fitting to service pipe and test/check all bonds as required.

STEP #3: Apply Insulation



Make sure the pipe and casing are clean and dry. Fit urethane elbow over over fitting. Cut the urethane pipe-covering to length using a hand saw. Fit over service pipe and secure in place.

STEP #4: Fit PVC over the insulation



Slide the PVC extenders in place and secure in place. Fit the PVC cover in place.

STEP #5: Tape wrap



Spiral wrap fitting with pressure-sensitive tape as shown.

Note: In colder weather, tape must be kept warm until time of use.



SHEET TITLE

90 DEGREE ELBOW KIT (RIGID FOAM) DETAIL

PRODUCT

TRICON FRP

SIZE SCALE NTS

12/01/2016

DWG. NO.

FRP-8

DATE









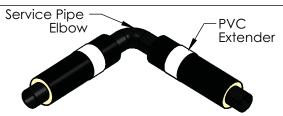


- Liquid Urethane Foam Materials
- 2. PVC Extenders
- 3. **PVC Cover**
- 4. Pressure-sensitive Tape



Equipment List: Razor knife, drill, gloves, and safety glasses.

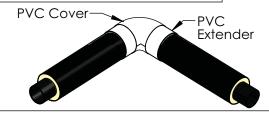
STEP #2: Place PVC Extenders and Join Service Pipe



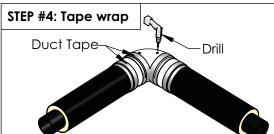
Prior to bonding service pipe, slide PVC extenders over casing and move away from bonding point to prevent damage.

Bond fitting to service pipe and test/check all bonds as required.

STEP #3: Fit PVC Cover & Extenders



Slide the PVC extenders in place and secure in place. Fit the PVC cover in place.



Wrap seams tightly with duct tape.

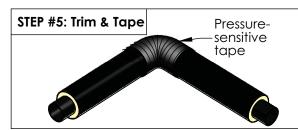
Drill two (2) 1" holes into the top of the PVC cover for introduction of polyurethane foam mixture.

STEP #5: Insulate Mixing Bucket

Refer to the chart for the foam amount based on the jacket size. Mix "A" and "B" in a bucket and pour foam into opening. When the foam reacts, temporarily seal the opening with duct tape. Allow 4-5 minutes for reaction to take place.

Note: Required proportions may vary based on weather conditions and foam thickness (chart based on 1½" nominal insulation thickness). Contact your Tricon representative for more information.

Jacket Size (In.)	"A" (Oz.)	"B" (Oz.)
3	3	1
4	6	2
5	6	2
6	6	2
8	12	4
10	18	6
12	24	8



RICON

Trim off excess material after curing is complete.

Spiral wrap fitting with pressure-sensitive tape as shown.

Note: In colder weather, tape must be kept warm until time of use.

SHEET TITLE

90 DEGREE ELBOW KIT (LIQUID FOAM) DETAIL

PRODUCT

SIZE SCALE DATE NTS 12/01/2016

DWG. NO. FRP-8

Piping Systems, Inc. P.O. BOX 361, Canastota, NY 13032 **p** (315)697-8787 f(315)697-8788

TRICON FRP







The field joint kit includes:

- Urethane pipe covering (3-ft sections)
- Urethane Elbow
- 2. PVC Extenders PVC Cover
- Pressure-sensitive Tape

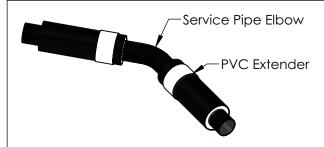


alasses.



Equipment List: Razor knife, drill, and safety

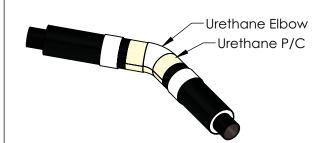
STEP #2: Place PVC Extenders and Join Service Pipe



Prior to bonding service pipe, slide PVC extenders over casing and move away from bonding point to prevent damage.

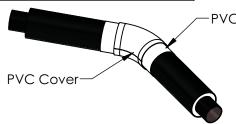
Bond fitting to service pipe and test/check all bonds as required.

STEP #3: Apply Insulation



Make sure the pipe and casing are clean and dry. Fit urethane elbow over over fitting. Cut the urethane pipe-covering to length using a hand saw. Fit over service pipe and secure in place.

STEP #4: Fit PVC over the insulation



PVC Extender

Slide the PVC extenders in place and secure in place. Fit the PVC cover in place.

STEP #5: Tape wrap



Spiral wrap fitting with pressure-sensitive tape as shown.

Note: In colder weather, tape must be kept warm until time of use.



SHEET TITLE

Elbow Kit (Rigid Foam) Detail

PRODUCT

SCALE NTS

DATE 12/01/2016

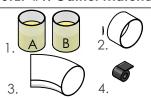
TRICON FRP

DWG. NO.

SIZE

Α

FRP-8A



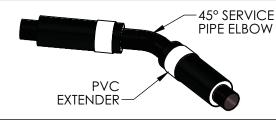
The field joint kit includes:

- Liquid Urethane Foam Materials
- 2. PVC Extenders
- PVC Fitting Cover
- Pressure-sensitive Tape



Equipment List: Razor knife, drill, gloves, and safety glasses.

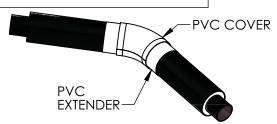
STEP #2: Place PVC Extenders and Join Service Pipe



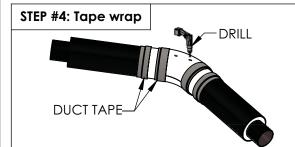
Prior to bonding service pipe, slide PVC extenders over casing and move away from bonding point to prevent damage.

Bond fitting to service pipe and test/check all bonds as required.

STEP #3: Fit PVC Cover & Extenders

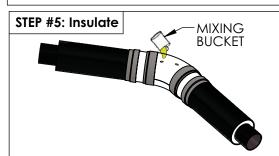


Slide the PVC extenders in place and secure in place. Fit the PVC cover in place.



Wrap seams tightly with duct tape.

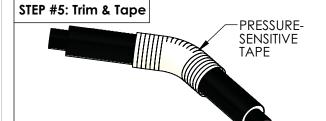
Drill two (2) 1" holes into the top of the PVC cover for introduction of polyurethane foam mixture.



Refer to the chart for the foam amount based on the jacket size. Mix "A" and "B" in a bucket and pour foam into opening. When the foam reacts, temporarily seal the opening with duct tape. Allow 4-5 minutes for reaction to take place.

Note: Required proportions may vary based on weather conditions and foam thickness (chart based on 1½" nominal insulation thickness). Contact your Tricon representative for more information.

Jacket Size (In.)	"A" (Oz.)	"B" (Oz.)
3	6	2
4	6	2
5	9	3
6	9	3
8	12	4
10	15	5
12	21	7



f(315)697-8788

Trim off excess material after curing is complete.

Spiral wrap fitting with pressure-sensitive tape as shown.

Note: In colder weather, tape must be kept warm until time of use.

	TRICON
	Piping Systems, Inc.®
P.O. BO	X 361. Canastota. NY 13032

p (315)697-8787

SHEET TITLE

Elbow kit (liquid foam) Detail

PRODUCT

SIZE

Α

DWG. NO.

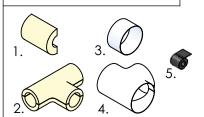
SCALE NTS

12/01/2016

FRP-8A

DATE

TRICON FRP



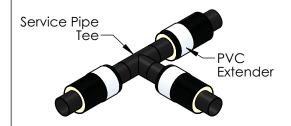
The field joint kit includes:

- Urethane pipe covering (3-ft sections) Urethane Tee
- 2. PVC Extenders PVC Cover
- 4.
- Pressure-sensitive Tape



Equipment List: Razor knife, drill, and safety glasses.

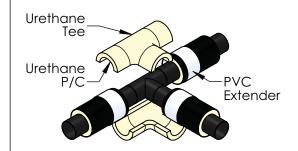
STEP #2: Place PVC Extenders and Join Service Pipe



Prior to bonding service pipe, slide PVC extenders over casing and move away from bonding point to prevent damage.

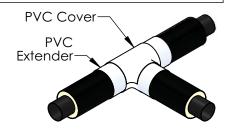
Bond fitting to service pipe and test/check all bonds as required.

STEP #3: Apply Insulation



Make sure the pipe and casing are clean and dry. Fit urethane tee over over fitting. Cut the urethane pipecovering to length using a hand saw. Fit over service pipe and secure in place.

STEP #4: Fit PVC over the insulation



Slide the PVC extenders in place and secure in place. Fit the PVC cover in place.

STEP #5: Tape wrap



Spiral wrap fitting with pressure-sensitive tape as shown.

Note: In colder weather, tape must be kept warm until time of use.



SHEET TITLE

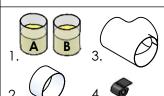
TEE KIT (RIGID FOAM) DETAIL

PRODUCT

SIZE SCALE DATE NTS 11/01/2016 DWG. NO.

TRICON FRP

FRP-9



The field joint kit includes:

- Liquid Urethane Foam Materials
- **PVC Extenders**
- 2. 3. **PVC Cover**
- Pressure-sensitive Tape



Equipment List:

safety glasses.

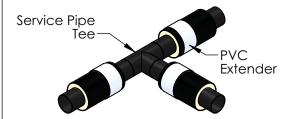


Razor knife, drill, gloves, and





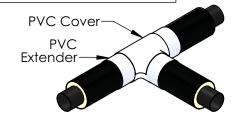
STEP #2: Place PVC Extenders and Join Service Pipe



Prior to bonding service pipe, slide PVC extenders over casing and move away from bonding point to prevent damage.

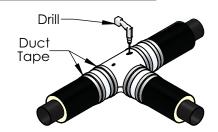
Bond fitting to service pipe and test/check all bonds as required.

STEP #3: Apply Insulation



Slide the PVC extenders in place and secure in place. Fit the PVC cover in place.

STEP #3: Apply Insulation



Wrap seams tightly with duct tape.

Drill two (2) 1" holes into the top of the PVC cover for introduction of polyurethane foam mixture.

STEP #4: Fit PVC over the insulation



Refer to the chart for the foam amount based on the jacket size. Mix "A" and "B" in a bucket and pour foam into opening. When the foam reacts, temporarily seal the opening with duct tape. Allow 4-5 minutes for reaction to take place.

Note: Required proportions may vary based on weather conditions and foam thickness (chart based on 1½" nominal insulation thickness). Contact your Tricon representative for more information.

Jacket Size (In.)	"A" (Oz.)	"B" (Oz.)
3	9	9
4	12	12
5	12	12
6	15	15
8	21	21
10	30	30
12	48	48



Trim off excess material after curing is complete.

Spiral wrap fitting with pressure-sensitive tape as shown.

Note: In colder weather, tape must be kept warm until time of use.

16	TRICON
	Piping Systems, Inc.®
$P \cap R \cap Y$	(361 Canastata NV 13032

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p (315)697-8787

SHEET TITLE

TEE KIT (RIGID FOAM) DETAIL

PRODUCT

		SCALE	
RICON FRP	Α	NTS	11/01/2016
RICONTRI	DWG. NO).	

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FRP-9