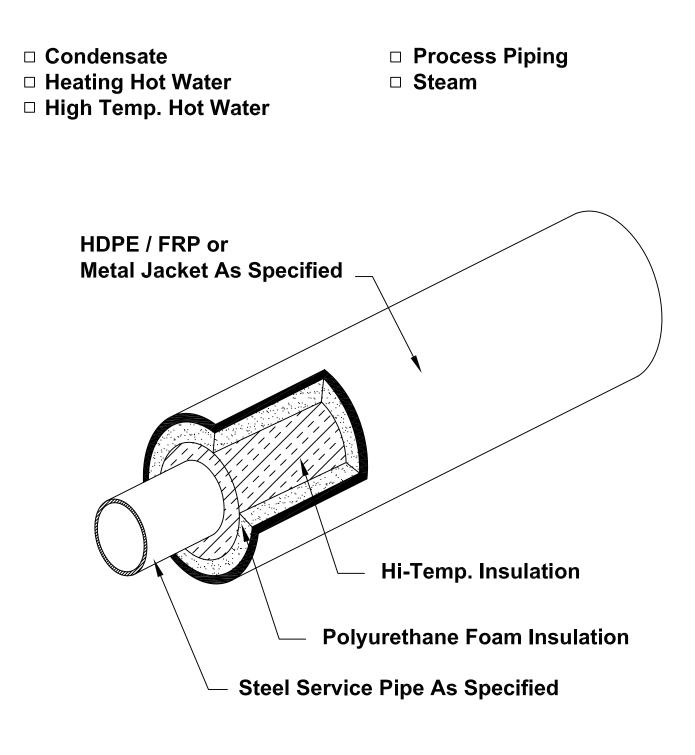
TRICON COMPOSITE PIPE SYSTEM

For Applications Up To 353° F Below And Above Ground







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

| Pipe Size | Nominal Inner Insulation Thickness | Nominal Outer Insulation Thickness | HDPE Jacket O.D. | System Temperature |
|--------------|---------------------------------------|---------------------------------------|---------------------|-----------------------|
| 2" | 1½" | 1.00" | 8.00" | 353°F |
| 21⁄2" | 2.00" | 1.00" | 10.00" | 353°F |
| 3" | 2.00" | 1.00" | 10.00" | 353°F |
| 4" | 2.50" | 1.00" | 12.43" | 353°F |
| 6" | 2.50" | 1.00" | 14.06" | 353°F |
| 8" | 2.50" | 1.50" | 17.83" | 353°F |
| 10" | 3.00" | 1.50" | 19.80" | 353°F |
| 12" | 3.00" | 1.50" | 22.17" | 353°F |

Service Pipe:

Carbon steel service pipe shall be standard weight A53 ERW or A106 seamless beveled for welding. Condensate return piping shall be Schedule 80. All joints for pipe 2 ½" and larger in size shall be buttwelded. Sizes 2" and smaller shall be socket welded. Straight lengths of piping will be supplied with 6" of piping exposed at each end for field joint fabrication. Where possible, piping lengths shall be supplied in 40 Ft. random lengths.

Insulation: (Inner Layer)*

The inner layer of insulation will consist of cellular glass, calcium silicate or perlite.

Insulation: (Outer Layer)*

The outer conduit insulation shall be polyurethane foam with a minimum 1-inch thickness. The polyurethane foam shall have a minimum density of 2.0, and a closed cell content of 90% to 95% per ASTM D-2856, and shall have a "K" factor of .14 per ASTM C-177 @ 75° F.

Exterior Casing:**

The exterior casing shall be seamless, extruded High Density Polyethylene (H.D.P.E.) ASTM-1248, with the following physical properties:

ASTM D-3350...Resin Type III, Grade P34 ASTM D-638...Ultimate Elongation 850%

ASTM D-638...Tensile Yield Strength 3300 psi ASTM D-790...Tangent Flexural Modules 175,000 psi **No polyethylene tape casings will be allowed.**

Sub-Assemblies:

All fittings, anchors, and end seals, shall be factory fabricated and insulated. No field fabrication of fittings, anchors or end seals will be allowed.

Field Joints:

After welding and hydrostatic testing, all field joints shall be insulated with insulation materials as supplied by Tricon Piping Systems, Inc.

Expansion Compensation:

Expansion and contraction within the piping system shall be accommodated with factory-fabricated oversized elbows, z-bends, and loops.

Installation:

<u>Trenches shall be maintained dry until final field</u> <u>closure is complete. Piping system not suitable for</u> <u>use in high water table.</u>

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 service piping shall be hydrostatically tested to 1-1/2 times the operating pressure, or as specified in the contract documents. The test shall be maintained for a minimum time of 1 hour. **EXERCISE DUE CARE WHEN INSTALLING AND TESTING THE PIPING SYSTEM.**

Backfill:

A 4-inch layer of sand or fine gravel, less than $\frac{1}{2}$ " in diameter, shall be placed and tamped in the trench to provide uniform bedding for the **Composite** 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.
- Insulation thickness will vary depending on the type of insulation specified and the operating temperature.
- ** Optional metallic casings for above ground applications include, Galvanized, Aluminum or Stainless Steel. (Coated Steel available)
- ** Optional non-metallic casings for below grade include, Filament Wound FRP.

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