

**TABLE 1**

| Pipe Size | Option 1        |                 | Option 2          |                   |
|-----------|-----------------|-----------------|-------------------|-------------------|
|           | FRP Jacket O.D. | FRP Jacket Wall | Steel Jacket O.D. | Steel Jacket Wall |
| 1/2"      | 3.50"           | .090"           | 3.500"            | .120"             |
| 3/4"      | 3.50"           | .090"           | 3.500"            | .120"             |
| 1"        | 4.50"           | .085"           | 4.500"            | .120"             |
| 1 1/4"    | 4.50"           | .085"           | 4.500"            | .120"             |
| 1 1/2"    | 4.50"           | .085"           | 4.500"            | .120"             |
| 2"        | 4.50"           | .085"           | 4.500"            | .120"             |
| 2 1/2"    | 6.63"           | .120"           | 6.625"            | .134"             |
| 3"        | 6.63"           | .120"           | 6.625"            | .134"             |
| 4"        | 8.64"           | .140"           | 8.625"            | .134"             |
| 5"        | 8.64"           | .140"           | 8.625"            | .134"             |
| 6"        | 10.70"          | .170"           | 10.750"           | .134"             |

**TRICON Double-Con** Containment System is a factory fabricated containment system for above and below ground transportation of hazardous fluids. The most widely used system can be designed with a steel carrier pipe and a secondary steel outer pipe.

**Carrier Pipe:**

Carbon steel service pipe shall be standard weight or extra heavy, A53 ERW or A106 seamless beveled for welding. (Stainless Steel piping shall be Type 304L or 316L. – Copper piping to be Type K cleaned and capped for medical use or Type L ) All joints for pipe 2 1/2" and larger in size shall be butt-welded. 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. Pipe lengths to be supplied in 21-42 ft. lengths.


**Containment Pipe For Above Grade:**

The outer conduit shall be a smooth wall, spiral welded steel conforming to ASTM Specification A-139, or electric resistance welded steel pipe conforming to ASTM Specification A-135, or as specified.

**Containment Pipe Coating For Above Grade:**

Red Oxide Primer, factory coated up to 3-4 mils dry film thickness.

**Containment Pipe For Below Grade:**

The outer conduit shall be a nonmetallic fiberglass conforming to ASTM 2310 standard classification TRP-11CX and ASTM D2996 specification RTRP 11CF1-5430, RTRP-11AF1-2214, RTRP-11AF1-2216.  UL / ULC Rated and Listed for nonmetallic underground containment piping for petroleum products, alcohols and alcohol gasoline mixtures.

**TABLE 2**

| Pipe Size       | Option 1        | Option 2   |
|-----------------|-----------------|------------|
|                 | FRP Jacket O.D. | Steel O.D. |
| 1/2" + 1/2"     | 4.50"           | 4.500"     |
| 3/4" + 3/4"     | 4.50"           | 4.500"     |
| 1" + 1"         | 6.63"           | 6.625"     |
| 1 1/4" + 1 1/4" | 6.63"           | 6.625"     |
| 1 1/2" + 1 1/2" | 6.63"           | 6.625"     |
| 2" + 2"         | 8.64"           | 8.625"     |
| 2 1/2" + 2 1/2" | 8.64"           | 8.625"     |
| 3" + 3"         | 10.70"          | 10.750"    |

**Containment Pipe Coating For Steel Below Grade:**

Conduit exterior shall be factory coated with a Fusion Bonded Epoxy. All exterior surfaces of the conduit shall be shot blasted prior to the application of the coating.

Fusion Bonded Epoxy is an N.A.C.E & N.A.P.C.A. approved corrosion coating.

**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 service piping shall be hydrostatically tested to 1-1/2 times the operating pressure, or as specified in the contract documents. The non-metallic outer jackets shall be tested to 5 psi and 15 psi for the metallic secondary containment. 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 1/2" in diameter, shall be placed and tamped in the trench to provide uniform bedding for the **Double-Con** 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.

**Tricon Piping Systems, Inc.**  
 P.O. Box 361  
 Canastota, NY 13032

**Tel: 315-697-8787**  
**Fax: 315-697-8788**  
**www.triconpiping.com**

**Accessories:**

- Heat Tracing
- Leak Detection
- Cathodic Protection

**Optional Systems:**

- Contact your Tricon representative for available sizes and system options.

Tricon Piping Systems, Inc.  
P.O. Box 361  
Canastota, NY 13032

Tel: 315-697-8787  
Fax: 315-697-8788  
[www.triconpiping.com](http://www.triconpiping.com)