7700 W Olive Ave - Peoria, AZ - 85345 - 623-878-4377 - 623-878-6683

## **ETF-MT Product Submittal**

Pre-insulated piping system designed for above ground or direct buried Chilled Water systems.

Carrier Pipe: Schedule 40 Solvent Weld PVC.

**Insulation:** Polyurethane foam: K Factor 0.14, Density 2.0 to 3.0 PCF, 90-

95% closed cell conforming to mil spec –1-24172 and ASTM-C-591 completely filling the annular space between carrier pipe

and jacket. Maximum service temperature of 250°

**Jacketing Material:** High Density Polyethylene (HDPE) casing Type III, Category 5,

Class C conforming to ASTM D-1248 or as specified. For

jacket thickness see attached schedule

**End Seal:** Heat shrink is factory applied to insulation ends.

Insulation of Straight Joints:

After hydro testing, the HDPE sleeve is slid in place and sealed with Heat Shrink tape. Polyurethane foam is then mixed and poured into the annular space and sealed watertight.

**Fittings:** All fittings are contractor supplied; field welded and insulated

utilizing ETF West fitting insulation kits. Fitting kits matching thickness of jacket, poured foam and Heat Shrink tape. The

use of PVC "Zeston" covers is not acceptable.

**Backfilling:** Underground systems shall be buried in a trench of not less

than 24 inches deeper than the top of the pipe jacket and not less than 18 inches wider than the combined O.D. of all piping systems. Base of trench shall have 6" of sand, gravel or clean fill. Prior to pressure testing the system ensure that 75% of the pipe between joints is covered with at least 1 foot cover per 100 PSI of test pressure, also properly thrust blocked. To meet H-20 highway loadings, there must be 24 inches from top of

jacket to grade of the compacted fill.

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## Specified Carrier Pipe / HDPE Jacket

Nominal Pipe Size	Minimum Insulation Thickness	Nominal Jacket Size	Nominal Jacket Size
2"	2.00	6.63	150 mils
2 ½"	1.75	6.63	150 mils
3"	1.44	6.63	150 mils
4"	1.61	8.00	175 mils
6"	1.55	10.00	175 mils
8"	1.77	12.43	175 mils
10"	1.53	14.06	175 mils
12"	1.44	15.87	175 mils
14"	1.80	17.83	200 mils
16"	1.77	19.80	200 mils
18"	1.95	22.17	225 mils
20"	1.85	24.00	250 mils
24"	1.85	28.07	275 mils
30"	2.85	36.00	275 mils

## **ETF WEST LLC WARRANTY**

ETF West LLC warrants its products only to the extent that it will replace those proved to have manufactured defects, within a one-year period from date of delivery. ETF West must be provided an opportunity to inspect an alleged defective product and the installation application. This warranty does not provide for the expenses incurred for removal, re-installation or consequential damages arising from the defective material. There is no warranty other than that described above, and no one is authorized to issue any other warranty related to ETF West LLC products.









