

7700 W Olive Ave - Peoria, AZ - 85345 - 407-523-3770 - 407-523-3722

ETF-MT Product Submittal

Pre-insulated piping system designed for above ground or direct buried Chilled Water, Hot Water and all other 45° to 250° medium temperature systems.

Carrier Pipe: Schedule 40 A-53 Grade B ERW Steel

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 impact seamless polyvinyl chloride (PVC) class 12454 B

compound conforming to ASTM 1784 Type 1, Grade 1. For

jacket thickness see attached schedule

End Seal: Mastic material end seal factory applied to insulation.

Insulation of Straight Joints:

Prior to joining carrier pipe a PVC sleeve is slid onto jacketing on either side of joint. After welding and hydro testing, the PVC sleeve is slid in place and sealed with pressure sensitive 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 consist of a mitered PVC fitting cover, polyurethane foam and pressure

sensitive tape

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. Backfill should be tamped compactly in place. No rock shall be used in the first foot of the backfill. 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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Table 1: Specified Carrier Pipe / PVC Jacket

Nominal Pipe Size	Minimum Insulation Thickness	Nominal Jacket Size	Jacket Thickness
1/2"	1.27	3.5	60 mils
3/4"	1.16	3.5	60 mils
1"	1.03	3.5	60 mils
1 1/4"	1.17	4.0	60 mils
1 ½"	2.07	6.0	70 mils
2"	1.81	6.0	70 mils
2 ½"	1.56	6.0	70 mils
3"	1.30	6.0	70 mils
4"	1.75	8.0	80 mils
5"	1.22	8.0	80 mils
6"	1.68	10.0	100 mils
8"	1.68	12.0	120 mils
10"	1.64	14.0	140 mils
12"	1.63	16.0	160 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.









