INSUL-PIPE SYSTEMS

STEEL CORE * PVC CLAD * SERVICE TEMP: +35 TO +250 F

PIPING SYSTEM:	Underground pre-insulated chilled and hot water supply and return piping system.
CARRIER PIPE:	STEEL – ASTM A-53 Grade B, ERW, SCH 40 thru 10", standard weight 12" and larger. Beveled ends for welded fittings and connections.
OUTER JACKET:	Polyvinylchloride (PVC) white, low pressure rated, seamless, ASTM D-1784, Class 1, Type 1. Able to withstand H-20 Highway loading. Thickness as shown below.
INSULATION:	Polyurethane, 2.5 PCF density, 90 to 95% closed cell, poured in place, "K" = .14 per inch @ 75 degrees F. Thickness as shown below.
END SEALS:	Factory applied, waterproof mastic covering the urethane insulation at the end of each joint of pipe and bonded to the carrier pipe and the outer jacket.
JOINT COVERS:	Couplings are insulated by wrapping a PVC cover around the coupling joint, then pouring polyurethane insulation into the annular space, cleaning off the excess and sealing with tape provided.
FITTINGS:	Fittings are insulated by wrapping a PVC fitting cover over the exposed fitting and injecting polyurethane foam insulation into the annular space, cleaning off the excess and sealing with tape provided.

Nominal Pipe Size	Insulation Thickness Inches	Jacket O.D. Inches	Jacket Thickness Inches	Insulation "R" Value	Heat Transfer BTU/LF/FDT
1	1.52	4.50	0.060	10.85	0.0319
1 1/4	1.31	4.50	0.060	9.35	0.0464
1 1/2	1.19	4.50	0.060	8.50	0.0585
2	1.00	4.50	0.060	7.14	0.0872
2 1/2	1.62	6.14	0.060	11.57	0.0651
3	1.25	6.14	0.060	8.55	0.1035
4	1.75	8.16	0.080	12.50	0.0943
5	1.22	8.16	0.080	8.71	0.1670
6	1.68	10.20	0.100	12.00	0.1446
8	1.69	12.24	0.120	12.07	0.1870
10	1.65	14.32	0.140	11.78	0.2388
12	1.47	16.00	0.160	10.50	0.2498