

## INSUL-PIPE SYSTEMS

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

<b>PIPING SYSTEM:</b>	Underground pre-insulated chilled and hot water supply and return piping system.
<b>CARRIER PIPE:</b>	STEEL – ASTM A-53 Grade B, ERW, SCH 40 thru 10”, standard weight 12” and larger. Beveled ends for welded fittings and connections.
<b>OUTER JACKET:</b>	Reinforced Thermosetting Resin Pipe (RTRP). Continuous strands impregnated with polyester corrosion resistant resins and filament-wound to a thickness of not less than 120 mil.
<b>INSULATION:</b>	Polyurethane, 2.5 PCF density, 90 to 95% closed cell, poured in place, “K” = .13 per inch @ 75 degrees F. Thickness as shown below.
<b>END SEALS:</b>	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.
<b>JOINT COVERS:</b>	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 covering with fiberglass material supplied by manufacturer.
<b>FITTINGS:</b>	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 covering with fiberglass material supplied by manufacturer.

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

