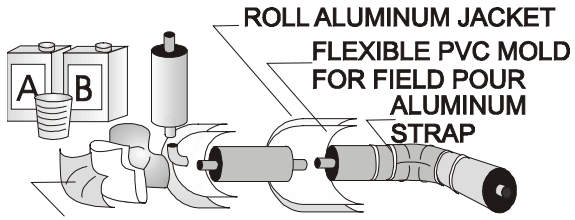
INSUL-PIPE SYSTEMS
STEEL CORE * ALUMINUM CLAD * SERVICE TEMP: -35 F TO +250 F

PROJECT:	ENGINEER: CONTRACTOR: AGENT:
PIPING SYSTEM:	Aboveground pre-insulated chilled and hot water supply and return piping system.
CARRIER PIPE:	STEEL - ASTM A-53 Grade B,ERW, SCH 40 thru 8". Beveled ends for welded fittings and connections.
OUTER JACKET:	.032 Spiral Aluminum.
INSULATION:	Polyurethane, 2.5 PCF density, 90 to 95% closed cell, poured in place, "K" = .13 per inch @ 75 degrees F. Thickness shown below.
END SEALS:	Factory applied, waterproof mastic covering the urethane insulation at each end of each joint of pipe and bonded both to the carrier pipe and the outer jacket.
JOINT COVERS:	Insulate coupling by field pouring urethane components into flexible mold, and over wrapping with banded aluminum roll sleeve.
FITTINGS:	Insulate fittings by field pouring urethane components into flexible mold, and over wrapping with banded aluminum fitting cover.

Pipe Size	Pipe OD	thickness inches	Jacket Size	OD Inches	ID inches	Wall Thickness	"R" Value	Transfer BTU/LF/FDT
1	1.315	1.31	4	4	3.94	0.032	9.36	0.0368
1 1/4	1.66	1.14	4	4	3.94	0.032	8.13	0.0535
1 1/2	1.9	1.02	4	4	3.94	0.032	7.27	0.0684
2	2.375	0.78	4	4	3.94	0.032	5.58	0.1115
2 1/2	2.875	1.53	6	6	5.94	0.032	10.93	0.0688
3	3.5	1.22	6	6	5.94	0.032	8.70	0.1053
4	4.5	1.72	8	8	7.94	0.032	12.27	0.0960
5	5.563	1.19	8	8	7.94	0.032	8.48	0.1718
6	6.625	1.66	10	10	9.94	0.032	11.83	0.1467
8	8.625	1.66	12	12	11.94	0.032	11.83	0.1909