



## Heat Flow Calculations for 4", 6" & 8" Pipe

	=	Personnel Protection Report
Calculation Type	=	Steel Pipe - Horizontal
Geometry Description	=	ASTM C585
System Units	=	0.8
Bare Surface Emittance	=	4 in., 6 in., and 8 in.
Nominal Pipe Size	=	800 °F
Process Temperature	=	75 °F
Ave. Ambient Temperature	=	0 mph
Ave. Wind Speed	=	N/A
Relative Humidity	=	N/A
Dew Point	=	2.5
Personnel Protection Thickness	=	All Service Jacket
Outer Jacket Material	=	0.9
Outer Surface Emittance	=	9-11# Lewco Mat, Varied
Insulation Layer 1	=	

**Variable  
Insulation  
Thickness**

**Surface Temperature  
(F)**

**Heat Loss  
(BTU/Hr/Ft)**

**Efficiency  
%**

	Surface Temperature (F)			Heat Loss (BTU/Hr/Ft)			Efficiency %		
	4"	6"	8"	4"	6"	8"	4"	6"	8"
Bare	796.5	795.9	795.4	5146.00	7486.00	9671.00			
1/2"	255.9	273.8	277.9	707.60	1091.00	1404.00	86.25	85.42	84.49
1"	180.9	193.5	190.4	413.80	615.20	735.20	91.96	91.78	92.40
1-1/2"	150.6	159.0	158.6	310.40	442.60	533.30	93.97	94.09	94.49
2"	133.3	137.9	140.4	254.60	344.90	426.10	95.05	95.39	95.59
2-1/2"	122.2	126.2	126.1	219.50	293.10	346.40	95.78	96.08	96.42
3"	113.6	118.0	118.4	192.60	257.60	304.40	96.26	96.56	96.85

The technical data presented are indicative of representative properties and are intended as a specification guide only. No warranties are expressed or implied as application conditions are beyond our control.