Calculation of heat losses from the pipe

Nº sec.	Pipe mm	Pipe W/m2°C	Insul. W/m2°C	Insul. mm	k W/m°C	Water °C	Air °C	b coeff	q W/m	Lsec. m	Q W
1	Steel 159/4.5	58	0.045	100	0.11	80	15	1.15	22	10	253
2	Steel 133/4.0	58	0.045	90	0.10	80	15	1.2	21	20	504
3	Steel 108/4.0	58	0.045	80	0.10	80	15	1.2	20	30	720
4	Steel 89/3.5	58	0.045	70	0.09	80	15	1.2	19	40	912
5	Steel 76/3.5	58	0.045	60	0.09	80	15	1.2	19	50	1140
6	Steel 57/3.5	58	0.045	50	0.08	80	15	1.2	17	60	1224
7	Steel 45/2.5	58	0.045	40	0.08	80	15	1.2	17	70	1428

The sum of heat losses from all sections is (in one hour): **6181 W**