

MBA Corporation
4388 South Kansas
Milwaukee, WI 53235

Attention Mark Krumnow

Mark;

Here are the utility expenses for the Pat's Heating apartment projects I spoke to you about. The two buildings are located within 3 miles of each other, were built by the same construction company using the same construction methods and materials, and were insulated to the same specifications with the exception of the underslab insulation. Both projects were heated by 92% AFUE boilers. The only difference in construction methods was that Project #1 used 2" ridgid foam, and was a 9600sf 8 family, while Project #2 was a 19200sf 16 family and was insulated with InSul Tarp. Both projects used 2" foam edge insulation. Following are the utility bills for January, February and March of 2005 for both projects. I've noted the cost per square foot to heat each building.

	Building #1	Building #2
Jan	\$517.48 (.054/sf)	\$596.62 (.031/sf)
Feb	\$414.44 (.043/sf)	\$601.63 (.031/sf)
March	<u>\$558.95 (.058/sf)</u>	<u>\$625.87 (.032/sf)</u>
Avg	\$496.96 (.052/sf)	\$608.04 (.0315/sf)

While there may be some slight differences in heat loss on the two buildings because of exposure, wind direction and infiltration, the two buildings should be considered a good test of the differences between standard ridgid foam insulation and InSul Tarp. By my calculations Building #2 insulated with InSul Tarp consistently came in about 39% less cost to heat than Building #1.

Dave Viegut

Hydronic Heating Manager
Auer Steel of Wisconsin