

EXAMPLE

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Roseburg Oregon Veterans Hospital Building 17

Asbestos removal was performed in 1988 on the domestic hot water, chilled water and recirculating hot water lines in the crawl space of this building.

No insulation was reinstalled until May 2, 2013. The pipes went un-insulated for 25 years.

The cost of insulation installed in 1988 for 1" pipe with 1" thick insulation was \$2.60 per foot – today it is \$5.80 per foot.

The cost of insulation installed in 1988 for 2" pipe with 1 ½" thick insulation was \$3.60 per foot - today it would be \$8.01 per foot.

There was 1,450 feet of pipe insulated –approximately 1,000 feet of 2" hot water pipe and 450 feet of 1" recirculating hot water pipe.

1988 price for insulating 1"x1" pipe - \$1,170

2013 price for insulating 1"x1" pipe - \$2,610

1988 price for insulating 2" x 1 1/2" pipe - \$3,600

2013 price for insulating 2" x 1 1/2" pipe - \$8,011

1988 Total price would have been \$4,770.

2013 Total price was \$10,620 – a difference of \$5,850.

Even more dramatic was the energy loss - with hot water running at 105° and an ambient temperature of 55° on average in the crawl space.

It would have taken approximately 16 months in energy savings to return the original investment of \$4,770 in 1988.

If you divided 25 years by 16 months you would have spent 18.7 times the cost of heating the hot water at a cost of \$89,199 plus the increased cost of insulation of \$5,850 – this equaled a loss of approximately \$95,000 over the past 25 years.

This crawl space had domestic hot water and domestic cold water - the combination of the two make for humidity, which causes mold, this is another major concern.

Other concerns were the wasted water each time the faucet was turned on and how long did you have to let it run before you got hot water?

We want to be a part of the solution in saving energy, protecting the environment and creating good family wage jobs.