The annual electricity savings, ES, will be:

ES = Q1 + Q2 + Q3

= ${ES} kWh

The annual demand savings, DS, is calculated as:

DS = Q1 / OH1 + Q2 / OH2 + Q3 / OH3

= ${DS} kW

The annual cost savings, ACS, is estimated as:

ECS = ES × EC + DS × DC

where,

EC = Electricity cost; ${EC}/kWh

DC = Demand cost; ${DC}/kWh

Therefore

ECS = ${ES} kWh/yr × ${EC}/kWh + ${DS} kW × ${DC}/kW

= ${ECS} + ${DCS}

= ${ACS}/yr

Implementation Cost

The implementation cost for this assessment recommendation is $4/ft2 for 1-1/2 in insulation blanket, $9/ft2 for 4 in insulation blanket, and $0.5/ft2 for labor. The implementation cost is calculated as:

IC = A1 × ($4/ft2 + $0.5/ft2) + A2 × ($9/ft2 + $0.5/ft2) + A3 × ($4/ft2 + $0.5/ft2)

= ${IC}

**The annual electricity savings for this recommendation will be ${ES} kWh/yr. The annual demand savings will be ${DS} kW/yr. The estimated annual cost savings is ${ACS} and, with ${IC} in implementation costs, the payback period will be about ${PB}.**

Implementation Cost References

The below links are for implementation cost references. We do not endorse/recommend these brands or products. Furthermore, these products may or may not be suitable for the application. The client should contact a vendor(s) to conduct a detailed study of the process, in order to determine the best product for the recommended application.

* <https://www.mcmaster.com/9328K512/>
* <https://www.mcmaster.com/9328K515/>