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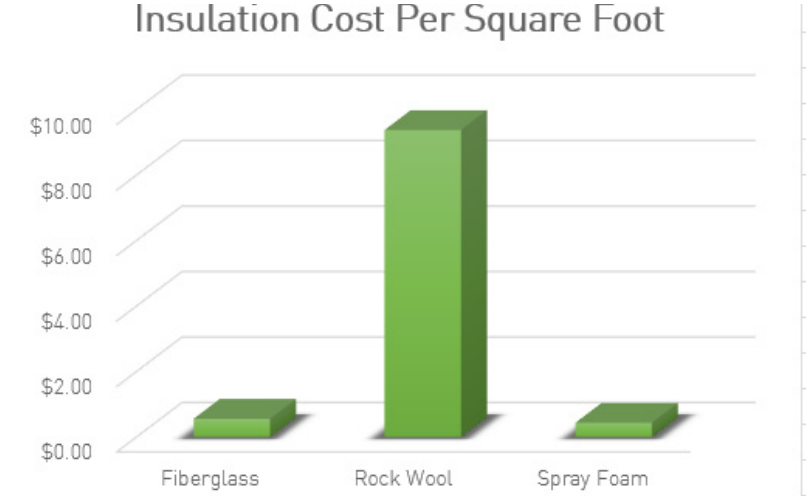
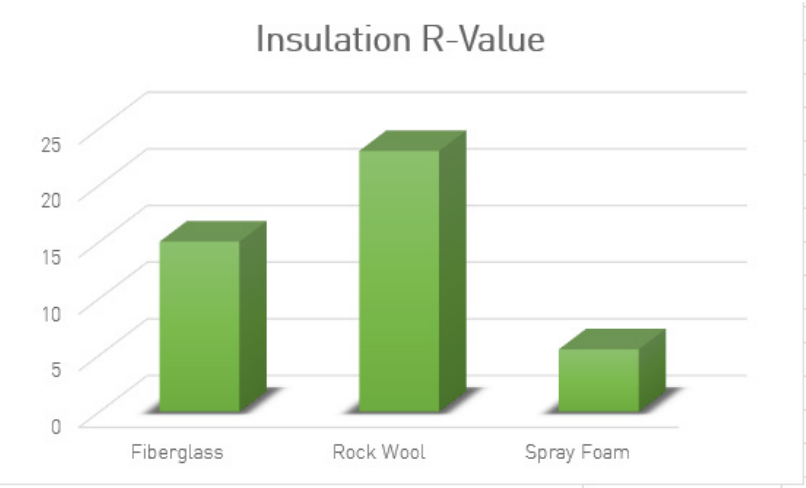
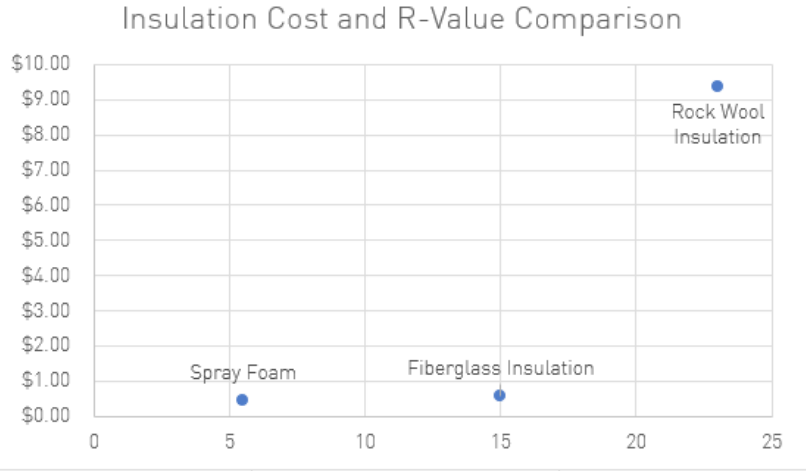
ARCH 633
Assignment 9

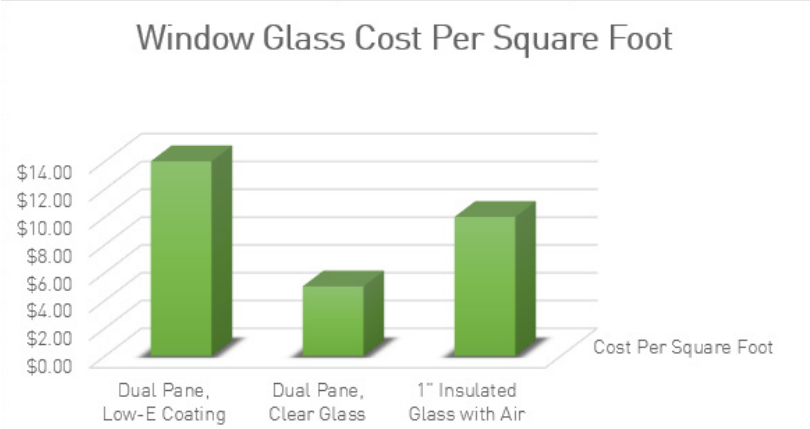
# Cost and R-Value Comparison for Insulation and Windows

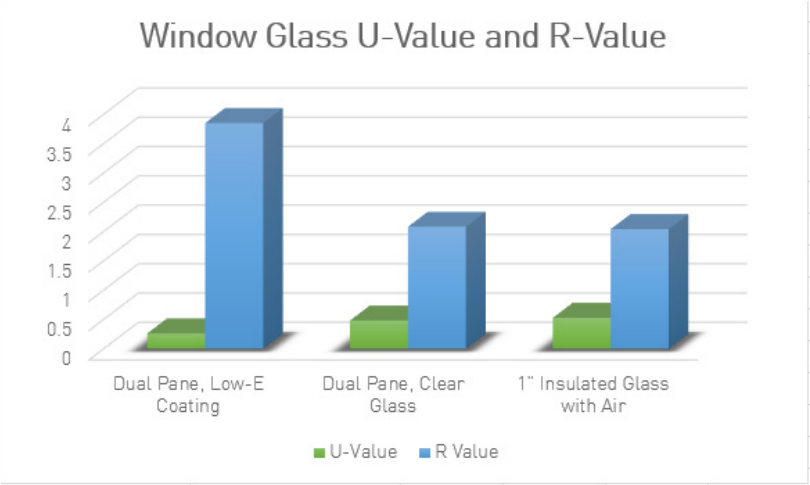


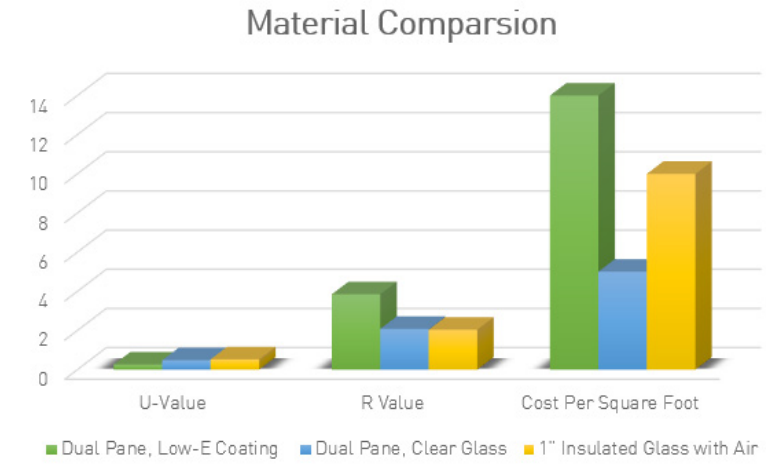



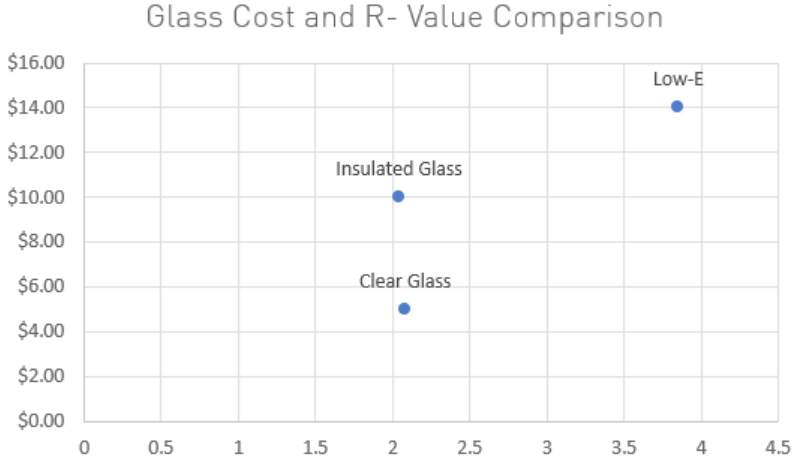




The higher R-Value results in a higher cost per material. However, it seems that the Fiberglass insulation, while almost three times the R-Value of the spray foam, is relatively similar in price. This leads me to believe that there is a threshold that once the R-Value surpasses, it leads to a greater price increase.




It appears that it is also the case in the glass that the higher R-Value results in a higher purchase price. Interestingly, the glass with the highest R-Value had the lowest U-Value. I think that the U-Value is the true factor to be considered when discussing glass in terms of efficiency, because the lower the U-Value, the better the glass is at insulating. As a result, less heat and therefore energy will be lost through the glass with a U-value, which is why it is more expensive.