

Homework 5

Heat Loss: Office Building

1. Using the office building drawings available on the course website, calculate R and U values for all exterior surfaces of the building.
2. Perform a heat loss analysis on the building, using the heat loss spreadsheet on the website. For humidification load, assume the load is equal to 5% of line 15 from the spreadsheet (Subtotal Heating Load for Space)
3. Calculate heat loss per square foot of building floorspace.