

ARCH-753-001-Building Performance Simulation Assignment-1

East facing apartment

Direction of windows: East facing and provides a view of the 42nd South Street

Problems faced:

1. Too much of sunlight during the morning hours and the glare also makes it difficult to work at study table
2. Low thermal comfort due to the change of temperature in the morning
3. Lot of noise due to the traffic

Solutions:

1. Proper shading or overhang device should be installed
2. Use of interior blinds or curtains
3. Use of energy efficient window panels like insulated panels, high reflectivity films/films that can cut off the summer heat and mesh window screens which can diffuse the solar radiation
4. Insulating the walls can also help with both increase in thermal comfort and reduce the level of noise