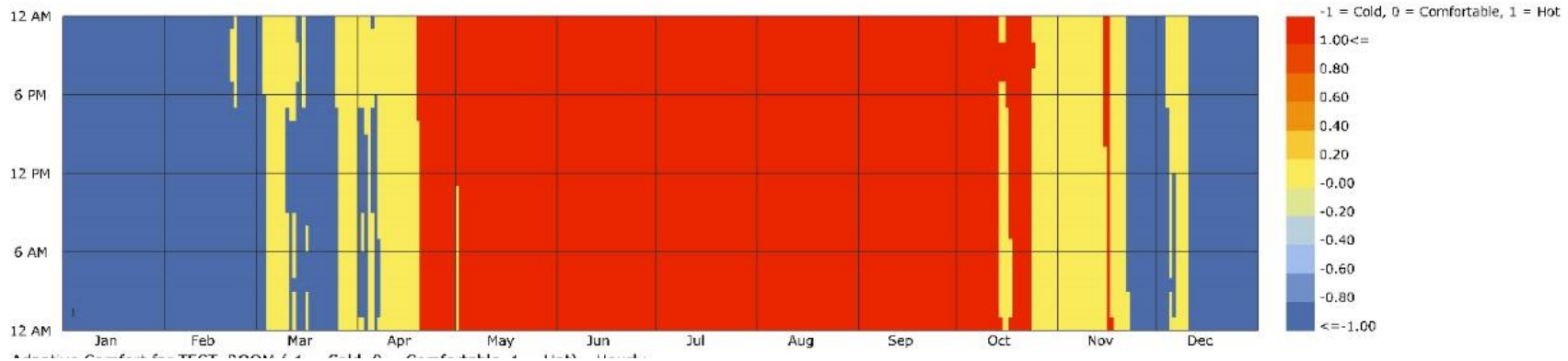
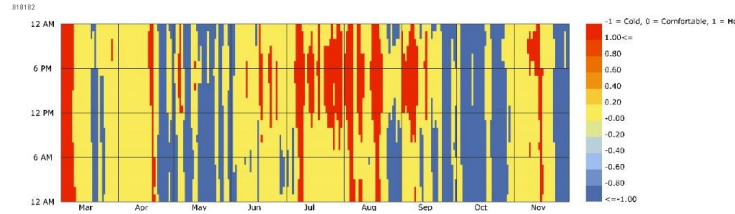
Analysis of comfort hours without ventilation
Louvres-Summer mode

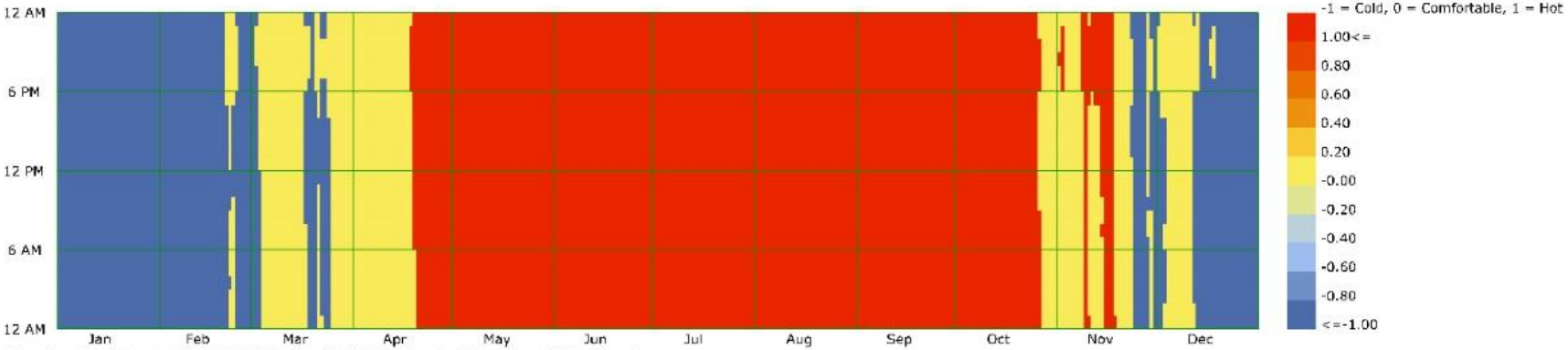


Choosing the time boundaries for winter/summer periods

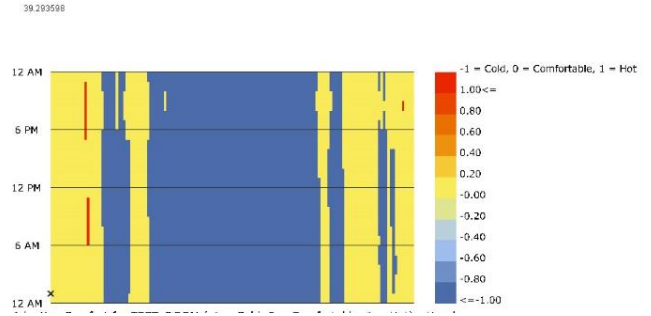
Summer – March – October
Louvres are tilted for 43°



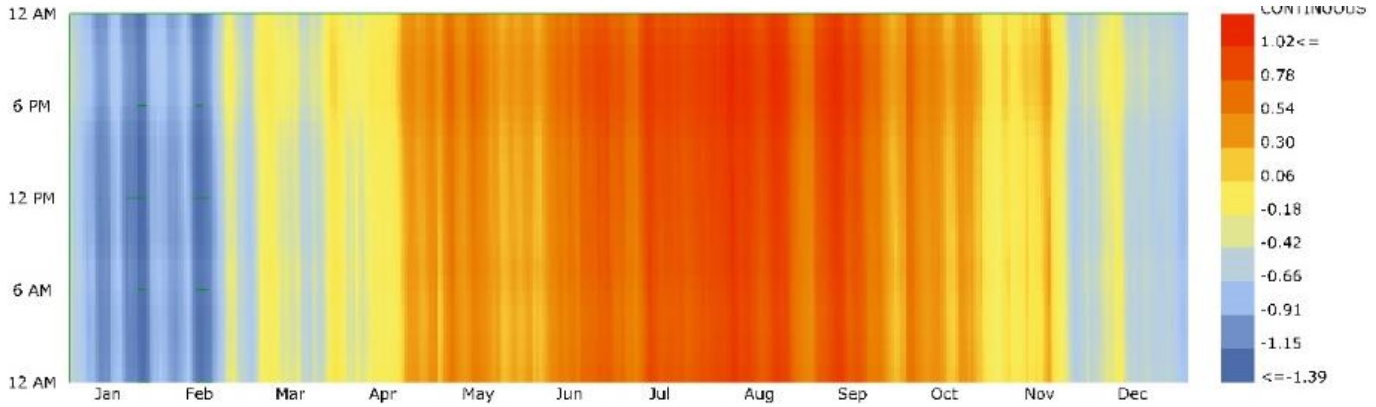
Analysis of comfort hours without ventilation
Louvres-Winter mode mode

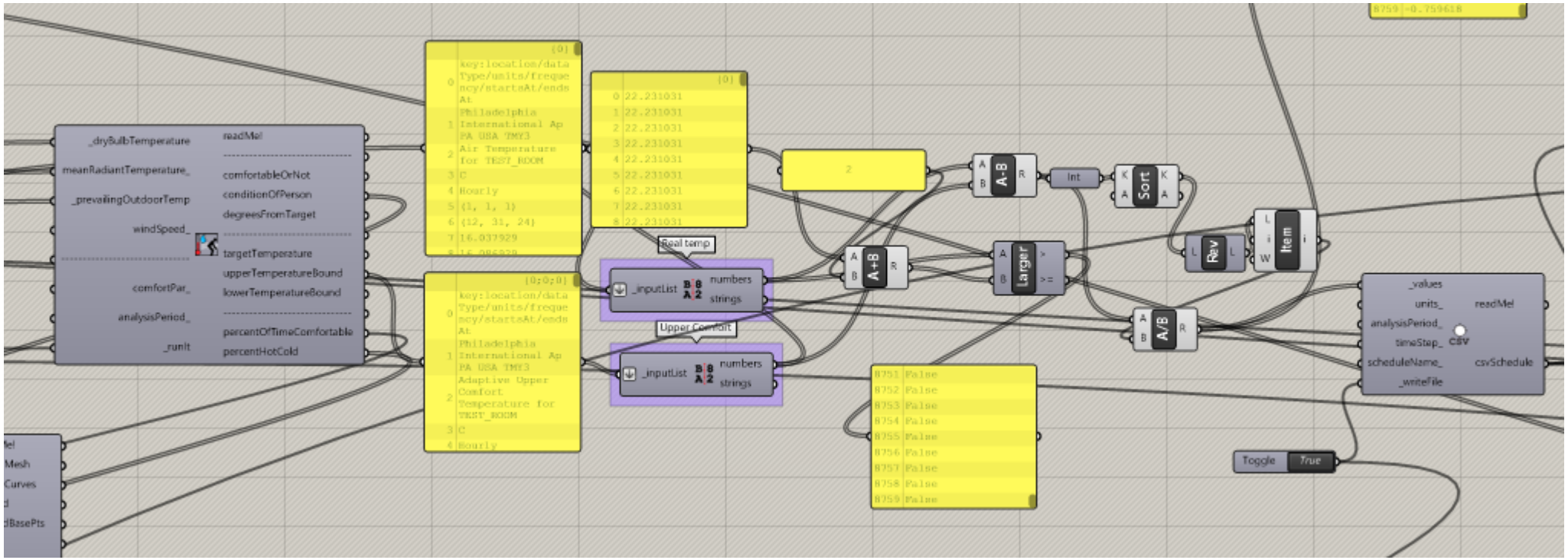


Winter – November – February
Louvres are horizontal



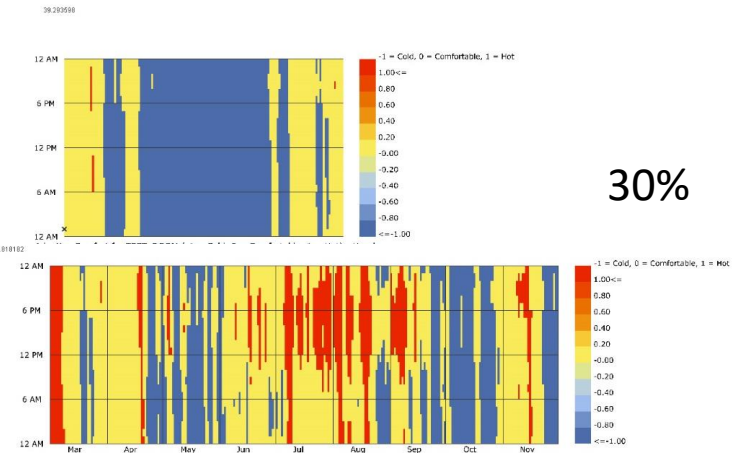
Adjusting the ventilation schedule.
Creating the schedule for each hour of a year with different ratio of window openings according to the interior temperature



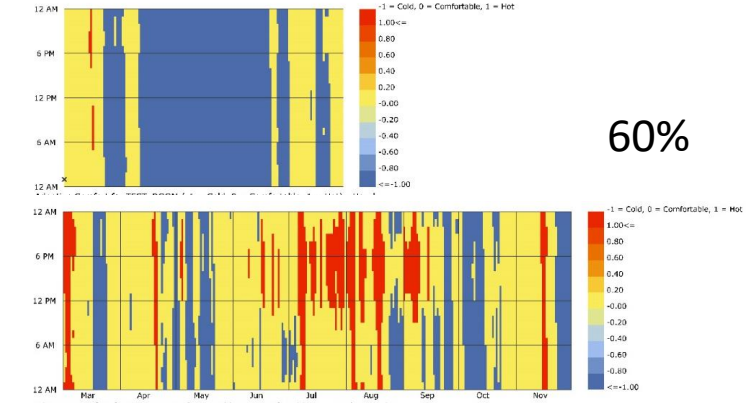


Analysis of different glazing percentages

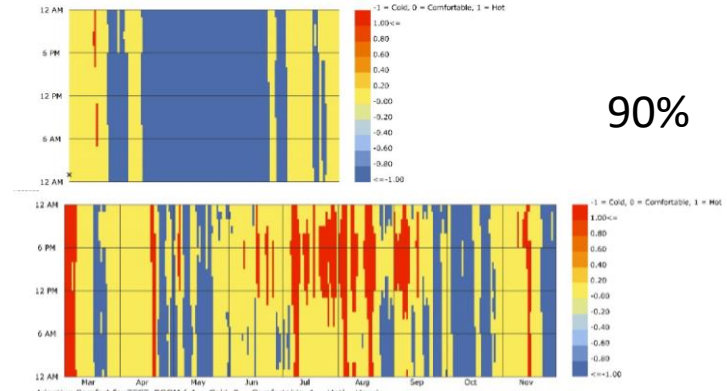
30%



60%

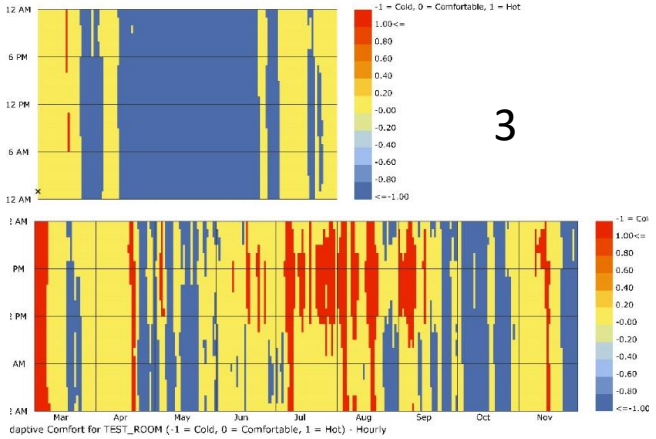


90%

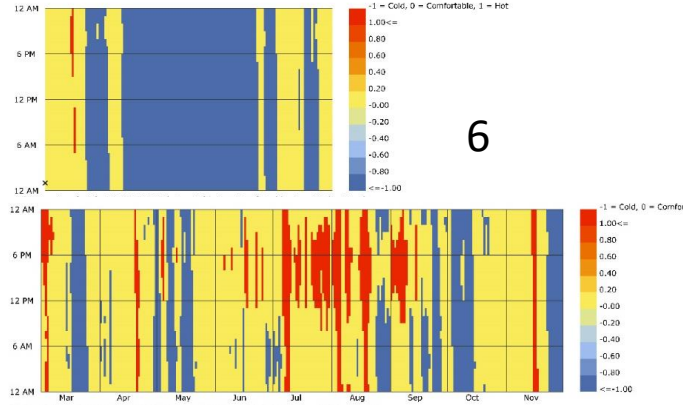


Analysis of different number of louvres

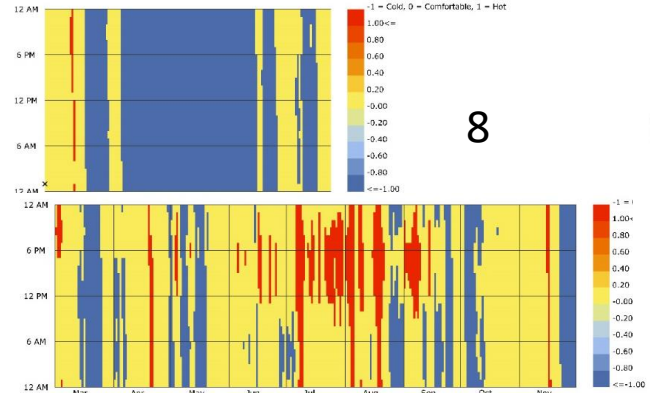
3



6

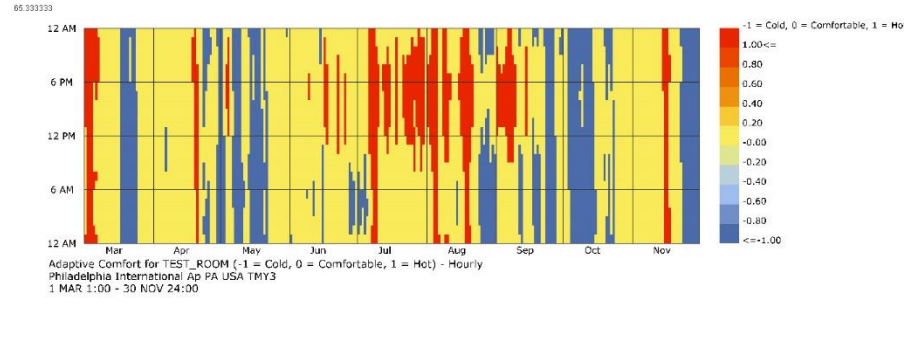


8

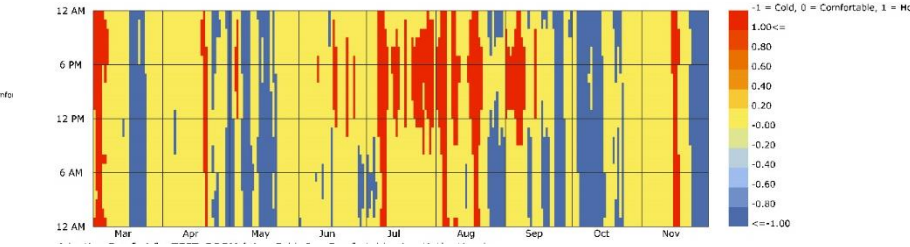


Analysis of different louvres angle

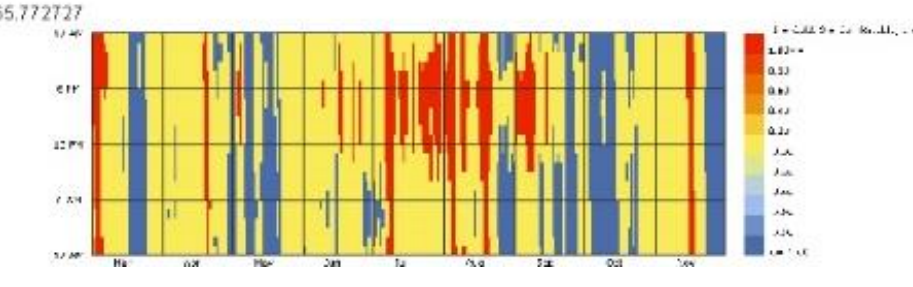
33*



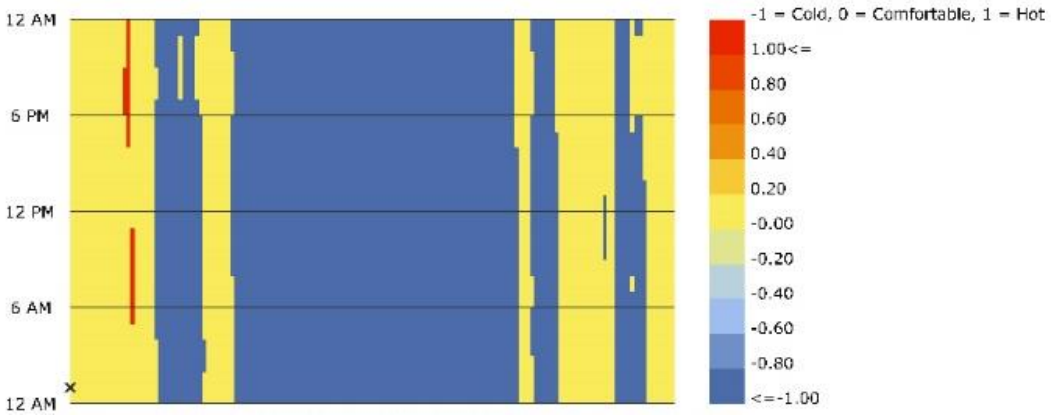
36*



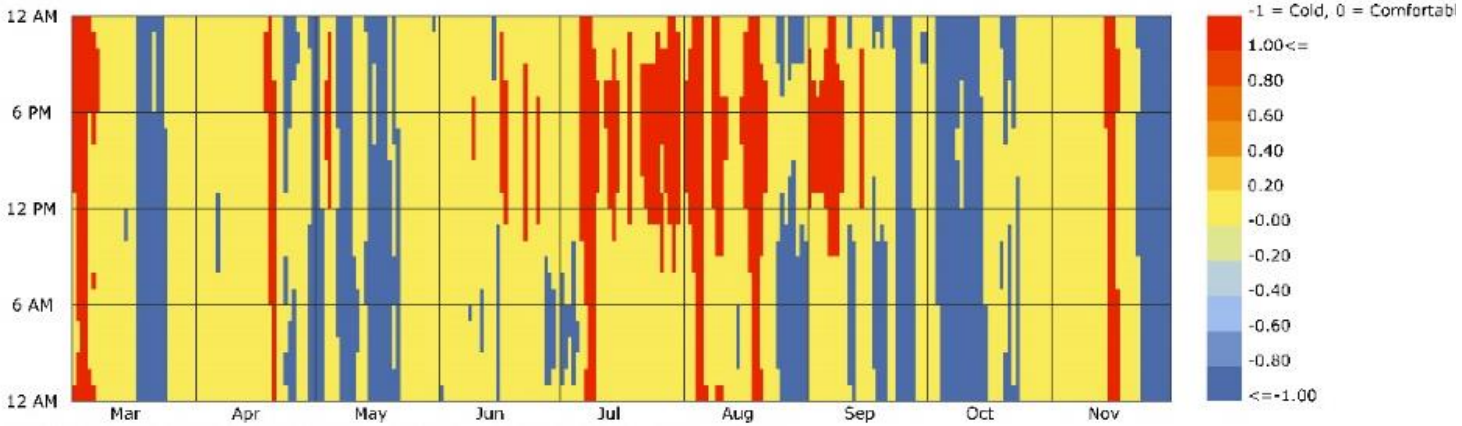
45*



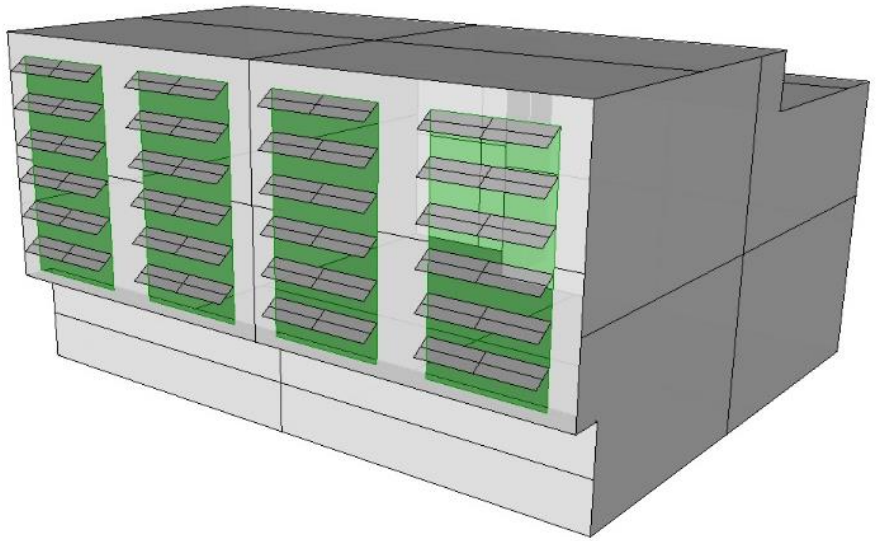
Final Result



WINTER



SUMMER



To increase percentage of comfort hours it is required to increase solar gains in winter (especially in February). Higher thermal mass will help to mitigate thermal swings during the cloudy periods.