

Main components contributing to the load !! of the building

- Heat Transfer through walls
- Heat Transfer through windows
- Internal gains : People, Devices, lights
- Solar radiation
- Air circulation: Infiltration + Ventilation !!!

We are calculating the load of the building: This happens in the worst case condition

Let's talk about summer !!

- Heat Transfer through walls : outside: Piacenza the warmest (almost) day!, let's say 33 .., inside: 24
- Heat Transfer through Windows: outside: Piacenza the warmest (almost) day!, let's say 33 .., inside: 24
- The class is full of people, all of them have gaming laptop ! And all the lights are on ! (They are playing hell creation game !)
- Solar radiation : maximum global radiation in Piacenza, but we should consider the direction of the wall and shading (if it exists)
- Air circulation: Infiltration (maximum wind velocity) + Ventilation (this is usually standard because we are controlling it ourselves)