

Study of the Impact of Glazing Type and its Layout on the Interior Environment of a Habitat

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Abstract- The parametric study carried out focuses on the impact of the type of glazing and its layout on the interior temperatures of a habitat. Different thicknesses, orientations and even different colors have been taken into account. The procedure for calculating the main parameters for the simulation and which correspond to each type of glazing is done via WINDOW7.3. Several simulations have been carried out for each case by EnergyPlus (dynamic simulation program of the building).

Through the results of the simulation, it has been found that the choice of the type of glazing and its layout on the building envelope are closely linked to the climatic conditions and more specifically to the period of the year that has been chosen for simulation and have a remarkable impact on the profile of indoor temperatures.

Keywords : Glazing, Visible transmittance, EnergyPlus, Simulation

