Abstract :
The present work is the study of mechanical behavior due to variation of the geometrical parameters in the core of the sandwich honeycomb panel. This study has allowed us to increase or decrease
the strains and stresses of the panel, in changing the angle of alveolus, as explained and described below. In
taking into consideration the results obtained previously to improve the mechanical properties and increase
the adhesion of different parts of the panel, without changing the adhesive, we have conceived two new
models, in increasing the contact surfaces in boundary of each part of the panel and giving a conical
hexagonal shape in his corp.