ARCHITECTURE ENCLOSURE MODULE TO DETERMINE THE ACOUSTIC PERFORMANCE

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Abstract
Enclosure is a room that serves to drown out the noise so as not to sound harsh to the surrounding environment. In a noisy environment industrial sound of his instrument may interfere with the performance of workers, which can interfere with the health of the human hearing, noise can be controlled by reducing the sources of background noise or attenuation, of the tools to make those reasons since the module enclosure to determine the acoustic performance. The goal of this architecture is to build a system of acoustic damping and knowing how to work the system acoustic damping. Measurement using the SLM (Sound Level Meter) data retrieval is performed in the room is soundproofed to obtain maximum results. From the results of data retrieval and the calculation of the value of insertion loss can note that the enclosure has been made can reduce noise 20dB for overalls. At a distance of 50 cm insertion loss have value on average much larger than approximately 100 cm for the second enclosure models. Sound pressure level reduction in enclosure model ‘A’ distance 50 cm with 1000Hz on the corner angle 300 to 600 sound pressure levels decreased by 3dB, and at a distance of 100 cm on the corner of 500 to 700 also decreased by 3dB. However the quality of the enclosure can be said to be good for the greater value of IL(insertion loss) obtained then the greater the noise also is reduced.

Keywords: enclosure, insertion los , noise, sound pressure level.