



PORTABLE ACOUSTIC PANEL USING FABRIC AND FOAM AS SOUND ABSORBER

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PENERANGAN INOVASI (Problem Statement)

Nowadays, noise pollution is an issue of concern around the world that affect the quality of life. Hence, it cause of hearing impaired and disturbing the silent condition thus make people in that area uncomfortable. In order to create the silent, comfort zone to people at the specific space, “Portable acoustic panel using fabric and foam as sound absorber ” is created to overcome the interference of noise. Noise absorber can be erected between noise sources and noise-sensitive areas. Noise barrier is important for some areas such as studio and classroom. In order to optimize the sound-proving condition, the material used in the panel as sound absorber is precise. We develop the project by using a combination of materials to produce panels, such as: PVC sheet, wire mesh, fabric and acoustic foam.

IMPAK INOVASI (Kelebihan & Potensi pasaran)

The main task of the portable wall panel is to monitor ambient by absorbing the sound wave into this panel. Monitoring the potential area such as classroom, residential area and any area that close to the construction site or factory can solve problem like significantly reduce the rate of sound reception as well by trapping the sound inside. Furthermore, the “Portable Acoustic Panel using Fabric and Foam as Sound Absorber” that we designed has a solution up to 48.63% maximum in absorbing noise. Each layer has a different role in order to create a satisfy and competent sound panel.

OBJEKTIF INOVASI (Objective)

- I. To determine the suitable thickness of fabric that can absorb noise better
- II. To determine the suitable material which tend to absorb sound better
- III. To minimize surrounding noise by using reusable material as sound absorber

BLOK DIAGRAM

