

ABSTRACT

Room class is function room as the place for deliver information. Sometimes the delivery information is unclear because of existence interference as the sound emanating from in room class as well from outside room class. The final project is done in the P402 Deli Building Telkom University. The classroom are located between two room class and face to face with three classroom which is restricted by corridor. Material in the room is made from gypsum board and stickered glass. Lecturing activities in room P402 can disturbed because activity in the outside. In room P402 has do measurement field with results is reverberation time 0.81 – 1.95 seconds, the value of sound transmission index (STI) is 64 %, value of sound insulation with source 401 is 11, value of sound insulation with source 403 is 13 and value of sound insulation with source corridor is 10. The result measurement still far from recommendation value for room for speech category. In this research, simulation of mounting of absorber and diffusor and modification of wall design. From the simulation results obtained the reverberation time between 0.92 s – 0.95 s with the installation of absorber on the entire surface of the walls except windows, doors, and column walls. While on the result of wall design modification, the value of sound insulation 41, 43 and 38 for insulation with cement board material, dense concrete and brick.

Key word : Room Class, Sound Insulation , Clarity