

Abstract

Verbal delivery needs emphasis and clarity of word pronunciation. The conference room is a place to deliver information through conversation or called room for speech. Acoustic performance in a room is determined by the sound field generated by the room. The sound field formation is affected by the geometry dimension, and the consisting material of the room and noises. For evaluation, the meeting room should have good acoustic performance judged by several parameters such as Listening Level (LL), Reverberation Time (RT), Rasti (Rapid Speech Transmission Index), and ambient noise. Those parameters must have values within the range of recommendation. In this research, the author wants to determine the effect of acoustic treatment in the form of absorber installation at the ceiling on the formation of the sound field and acoustic parameter performance. Those modifications are basically combination of the absorption coefficient, position, surface area and the height of the absorber. From the simulation result, absorber installation in ceiling with average absorption coefficient of 0,13 – 0,15 has not yet procure the acoustic parameter in room P213 agree with the recommendation value for room for speech.

Keywords: sound field, RT, LL, Rasti, absorber, ceiling