



## ROOM ACOUSTIC MEASURES FOR CLASSROOMS

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### **Abstract**

Room acoustic measures related to reverberance, speech clarity and sound strength has been measured in 17 ordinary classrooms. The aim of the project was to show that reverberation time alone is not sufficient for characterizing the acoustic condition, supplementary measures are needed. Significant differences in sound strength (G) and speech clarity (C50) are obtained even though the reverberation time is almost equal. Measurements have been carried out for a variety of room acoustic configurations. The effect of furnishing and different type of ceiling absorbers is investigated. It's concluded that the parameters speech clarity (C50) and sound strength (G) are more appropriate than reverberation time (T20) for an evaluation of classroom acoustic.

Keywords: Reverberation time, speech clarity, absorption, strength, room acoustic