10. Improvement of Sound Insulation Performance Evaluation System

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Recently, as the demand of high performance sound environment of the building has been increased, both the method of prediction or examination used for planning or designing stage, and the presentation technique which makes the explanation of the examined results easy to understand are required to be developed.

Though, the sound insulation performance evaluation system has been still developed and used practically in our company, newly developed prediction and countermeasure technology were added to the system as new functions, and the prediction accuracy for several types of noise has been improved.

This paper describes the outline of the improved sound insulation performance evaluation system. Furthermore, experimental result concerning to the effect of ALC(autoclaved light-weight concrete) which has been often used as the member of the outer wall of super high-rised housings on the solid propagating sound and the application of the results to the evaluation system are also described.

Key words: sound environment, evaluation, multiple dwelling house, sound insulation, solid borne-sound