

16. Study on Prediction Method of Flanking Transmission at between Two Rooms

-Part 1 Study on Prediction Method of Flanking Transmission from Windows-

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Flanking transmission from windows path exerts the influence on the sound insulation performance of the reinforced concrete construction apartment house. The windows path solve the problem and the detailed examination was carried out sound by full-scale model. As a result, the wisdom like the following regarding the prediction method and obtained.

- i) Decrease quantity inside the balcony differs by the comprehensive transmission loss including the opening of the separation board that is established to the boundary interfaces between two rooms
- ii) Decrease quantity inside the balcony by the presence of the structure pillar of the boundary interface the one with the pillar decrease quantity big
- iii) Being crowded the round from the balcony outside sound in a more open mouth interval than open mouth area
- iv) Being crowded the round from the balcony outside sound is possible that the sound transmission loss of the boundary interface disregards it in a small case
- v) The prediction method that was proposed with this research the correspondence nature with the measurement value is good.
- vi) As for this method the application is possible in the prediction of the flanking transmission of the corridor of the hotel guest rooms
- vii) Even a little problem is left although this method is a practical method from the face such as the simplicity of prediction accuracy and prediction law. The problem is a future examination subject

Key words : flanking transmission, insulation performance, balcony, diffraction decrease