

12. Sound Insulation Performance of Double Sash by Inside Sash using Acrylics

Katsuo Yaginuma, Koichi Inadome

Double sashes have been used for buildings near main roads and railways to reduce the indoor noise level under the allowable noise level. Conventional double sashes have been aluminum sashes consisting of outside and inside sashes being united. Recently, double sashes consisting of aluminum outside sash and acrylic inside sash have been developed and used. The use of acrylic reduces the weight of the window frames, but the total weight is not reduced much when glasses are used. To reduce the weight of sashes, an all acrylic inner sash was developed, in which the window glass is also acrylic. The sound insulation performances of the developed sash are reported.

Key words : acrylic inside sash, double sash, glass, acrylic