عنوان مقاله:

Multilayer fire proof absorptive-insulative material composition withoptimized parameters

محل انتشار:

دومین کنفرانس بین المللی کاربرد مواد و ساخت پیشرفته در صنایع (سال: 1401)

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خلاصه مقاله:

Sound pollution, as of one of the main modern city irritations has become one of the paramount challenges ofthe current days. After COVID-۱۹ outbreak many of the professional affairs concentrated at homes andresidential areas. Many of the negotiations and conferences have been conducted at homes, where the noiselevel should be controlled. So, the proper addressing the problem, combining with the privilege of chemicalcomposite synthesis is of great significance. In this paper a multilayer fire proof absorptive-insulator compositehas been designed to control the acoustic parameters in residential areas. Apart from the desired acousticparameters and inflammability, required in apartments, energy saving factors such as heat conductivity hasalso been optimized. The material has reached the absorption coefficient of ۱, resulting in total soundabsorption, and reasonable Sound Transmission Class (STC).

کلمات کلیدی:

Multilayer Composite, Sound Absorption, Sound Transmission Class, Fire Proof absorber,Absorptive-Insulative, Acoustic Panel