Title (en)

BUILDING CONSTRUCTION PANELS

Title (de)

BAUPLATTEN

Title (fr)

PANNEAUX DE CONSTRUCTION DE BÂTIMENT

Publication

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Application

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Abstract (en)

[origin: GB2499063A] The invention relates to the suppression of acoustic transmission through building construction panels such as plasterboard panels. A layer of elastomer-modified bituminous material is coupled to part of the surface area of one of the panel faces so as to coincide with its regions of maximum displacement during resonance at its fundamental frequency. The elastomer-modified bituminous material may be provided in strips which are arranged to extend across the panel away from the perimeter. The elastomer-modified bituminous material acts as an unconstrained damping layer to reduce the displacement, and hence the noise, produced by the panel. In an alternative embodiment, the layer of elastomerÂ--modified bituminous material is sandwiched at the perimeter only between two superimposed construction panels to define a cavity at the centre of the panel. The invention provides significant improvements in terms of noise propagation whilst using fewer materials. The elastomer-modified bituminous material may be a styrene-butadiene-styrene modified bitumen and may be provided on a fibrous carrier.

IPC 8 full level

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