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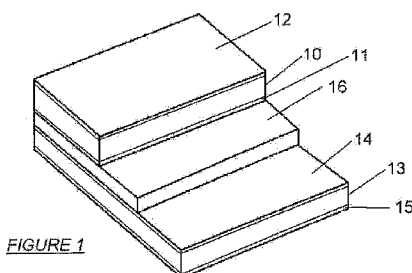


FIGURE 1

(57) Abstract: A laminated acoustic building panel comprises a pair of plasterboard substrates (10,13) which are bonded together by an adhesive layer (16), the panel having a dynamic Young's modulus of 0.1 to 5 GPa and a damping loss factor of 5 - 30% ($\eta = 0.05 - 0.3$), and the ratio of the adhesive (16) to the applied surface area of the substrates (10,13) being 80 - 250 g/m². The laminated panel is relatively soft in construction and hence sound waves caused by knocking or impact noise is surprisingly damped using considerably less adhesive (16) than known panels. The use of soft substrates (10,13) and less adhesive (16) significantly reduces the weight of the panel. Furthermore, the use of less adhesive (16) significantly reduces costs and makes production easier.



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