

PDP Paper



PDP is a self-contained viscoelastic layer that can be incorporated into structural fiberglass and FRP.

PDP is light weight, and the viscoelastic layer has been optimized to raise the typical sandwich panel's loss factor 5 to 10 times over a wide frequency range, which leads to a reduction in sound radiation and an improvement in transmission loss by 7 – 10 dB.

The sound pressure levels measured in a boat before and after PDP had been added to the engine room bulkhead wall showed an improvement in sound insulation of between 5 and 15 dB in the frequency range 125 hertz to 4000 hertz.

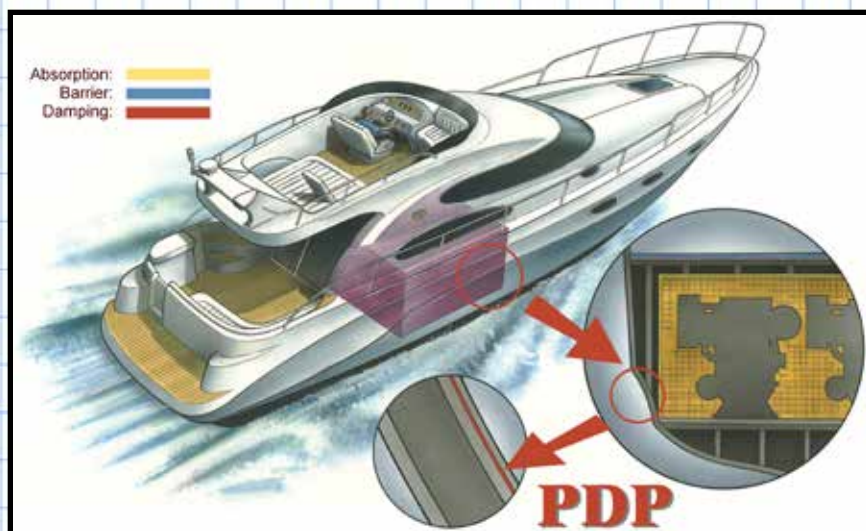
These damping materials, when used in combination with sound absorption materials such as dBcloth and Hushpanel can give levels of comfort normally only achievable by installations incorporating extremely heavy standard acoustical materials.

Key Benefits

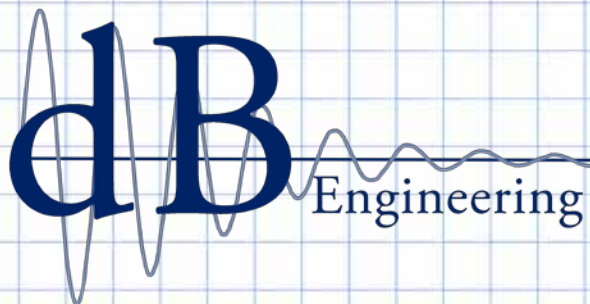
Very little added weight

Laminated directly as the standard bulkhead/ deck is cured

Increased sound transmission loss for no added mass



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Noise Control Materials Used in Transportation

The main noise sources are the engine and its accessories, the transmission, the exhaust system, the hydraulic system, the cooling fan and the tires. In some cases also the fan in the air conditioning system has to be considered. The relative contribution from the different sources varies, depending on the type of bus and the driving conditions, as well as on the location inside the bus.

