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FIBERGLASS DAMPING INTERLAYER (FDI)

Fiberglass Damping interlayer (FDI) is a unique material for damping of vibration and structure borne noise in fiberglass structures, including boat hulls and composite panels. Typical areas where FDI should be used are the hull bottom over the propeller, around vibrating engine beds, on light-weight composite bulkheads and on other resonant GRP surfaces.

Technical Information

FDI is particularly designed for increasing the structural damping in glass fiber reinforced structures and panels. When applied to structural systems, including hulls and foundations, it should be incorporated as an add-on treatment supplemental to the engineered structural composite. FDI should then be laminated in, and a constraining GRP layer added on top of the FDI layer of about 1/3 of the main structure thickness.

Specifications

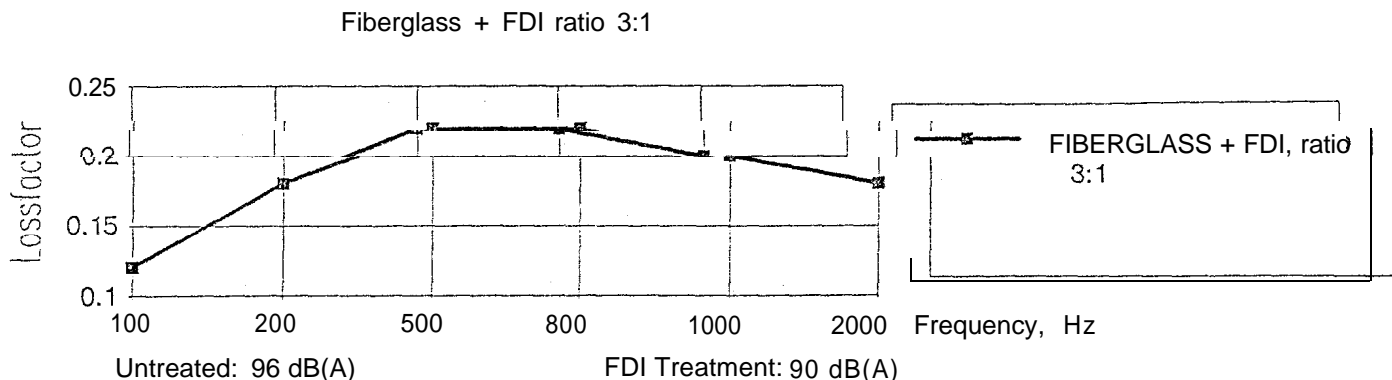
Thickness	.04"
Surface weight	.02 lb/ft.sq
Color	Beige
Performance temp. range	0 - + 60° C
Standard roll sizes	51" x 164

Application

FDI has been specially formulated to give an excellent bond with polyester resin used in GRP constructions and can be laminated directly into the construction without any separate adhesive.

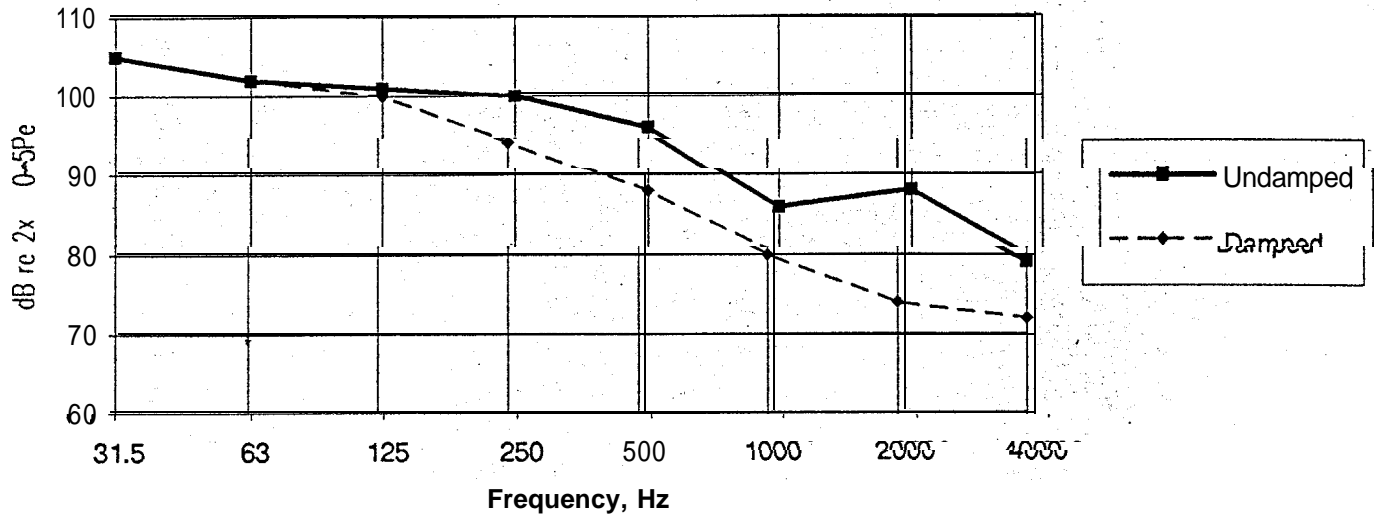
Comparison between an untreated and treated FDI damped aft cabin on a 29' Motor Yacht.

Engine: Perkins 4.236 marine Diesel @ 2500 rpm

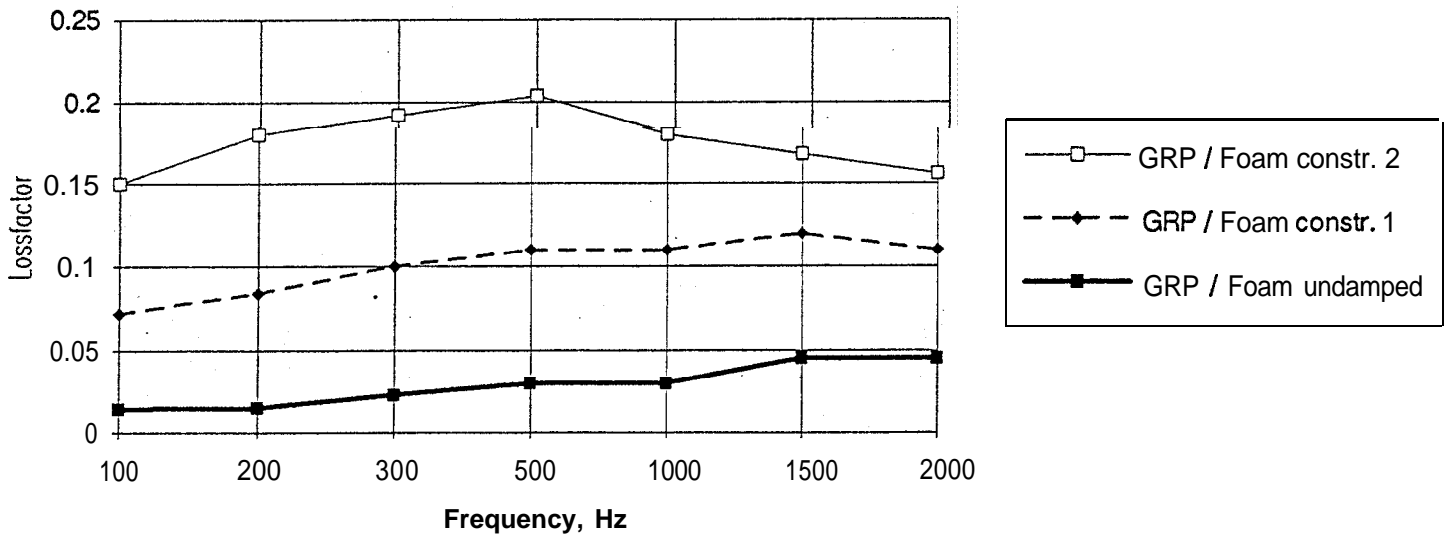


Material data: Composite lossfactor FDI/GRP

Soundpressure Level Tresfjord 29



Lossfactor GRP / WC foam + FDI



1. 2MM GRP-FDI-2mm GRP-50mm Divinycell- 2mm GRP-FDI- 2mm GRP
2. 3mm GRP - FDI - 50mm Divinycell - FDI - 3mm GRP