ACOUSTEEL

Acoustick

Acoustick (also known as AluDamp) is manufactured from 0.5mm aluminum with an energy absorbing, visco-elastic polymer on one side.

It is designed to minimise noise and vibration radiating from resonating structures and can reduce noise by up to 30dB.

Acoustick can also be manufactured using alternative materials to aluminum including zintec, galvanised, stainless steel and any other dry sheet material.

Design

Highly qualified technical engineers can measure vibration emanating from any metal substrate using an accelerometer and calculate the optimum thickness of Acoustick to meet specified acoustic performance requirements.

Application

Acoustick is used extensively in the railway and food processing industries and on heating and ventilating ducts, hoppers, silos and waste extractors. It is particularly suitable for damping any equipment manufactured from aluminum and steel.

Operating Temperature

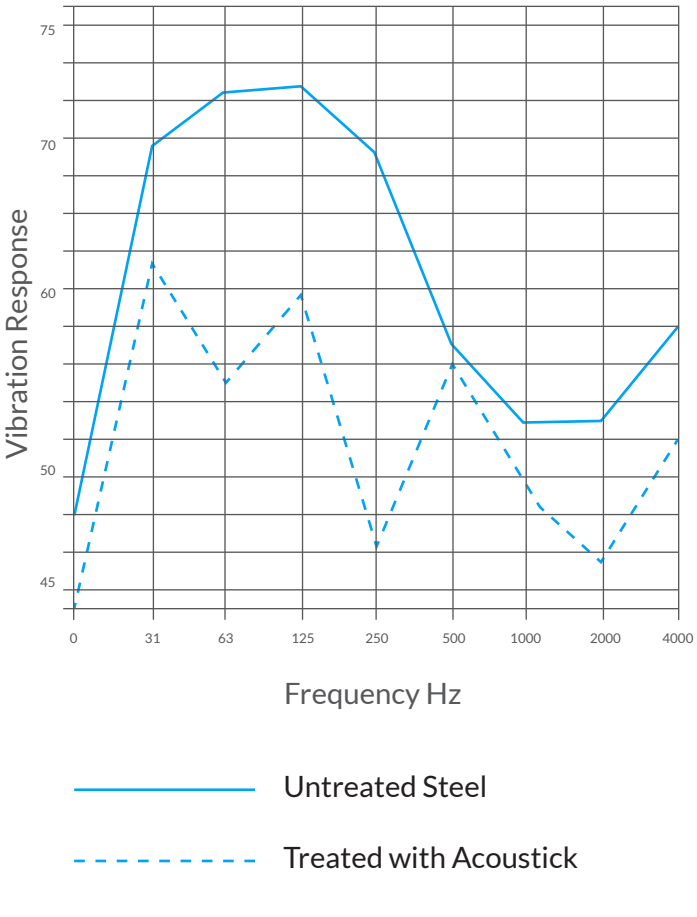
Acoustick can be used at continuous operating temperatures up to 120^{O}C. Optimum damping is achieved at temperatures up to 75^{O}C.

Fire Performance

Acoustick complies with the Class 'O' requirements of the Building Regulations, when tested to BS476: Part 6 1981 and Part 7: 1987. It also meets the rail industry requirements and the smoke, fire, toxicity and spread of flame requirements of BS6853.

Acoustic Performance

The graph below compares the acoustic performance of 3mm untreated steel before and after the application of Acoustick.



For further information on Acoustick, please contact our specialists on 0191 499 0244 or visit www.acousteel.co.uk

Operating temperatures

	Standard Temperature	High Temperature
Minimum Application Temperature	10°C	10°C
Continuous Operating Temperature	120°C	200°C
Intermittent Operating Temperature	140°C	235°C

Dimensions and Weight

Product	Weight kg	Size mm	Thickness mm
Acoustick	**2.8** **5.6** **11.2**	**2000 X 1000** **2000 X 1000** **2000 X 1000**	**0.5** **1.0** **2.0**

Note: Other thicknesses are available. Acoustick can be cut to size to suit your requirements.

Application and Fixing

The optimum damping performance of Acoustick is achieved when 70-80% of the substrate is covered. The damper must be between 40–100% of the thickness of the substrate being treated.

To obtain optimum bond strength from the polymer on Acoustick, follow the instructions detailed below:

1. Clean and dry the substrate with an appropriate cleaner i.e. methylated spirit or similar so that it is free from oil, grease, rust, dust or other particles.
2. Peel off the protective backing, position material onto substrate and apply a constant forward and downward pressure to the surface of Acoustick to ensure it is securely fixed onto the substrate. A hard timber or steel roller is recommended for this purpose.
3. Particular care must be taken to avoid forming air pockets between the substrate and the polymer, as this will weaken the bond and reduce the vibration damping performance.

We also offer Acousteel, a leading sound deadened steel which can reduce unwanted noise and vibration by over 1000%. Acousteel is a constructed laminate with an energy absorbing viscoelastic polymer situated between two metal skins, the result of which is an audibly dead steel panel.

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