

AluDamp

Description

AluDamp is manufactured from 0.5mm aluminium 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.

AluDamp is available in flat sheets or can be die-cut to size and shape. The material is supplied with a release paper enabling it to be bonded directly on to a substrate.

Colour

Silver

Design

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

Application

AluDamp 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 aluminium and steel.

Operating Temperature

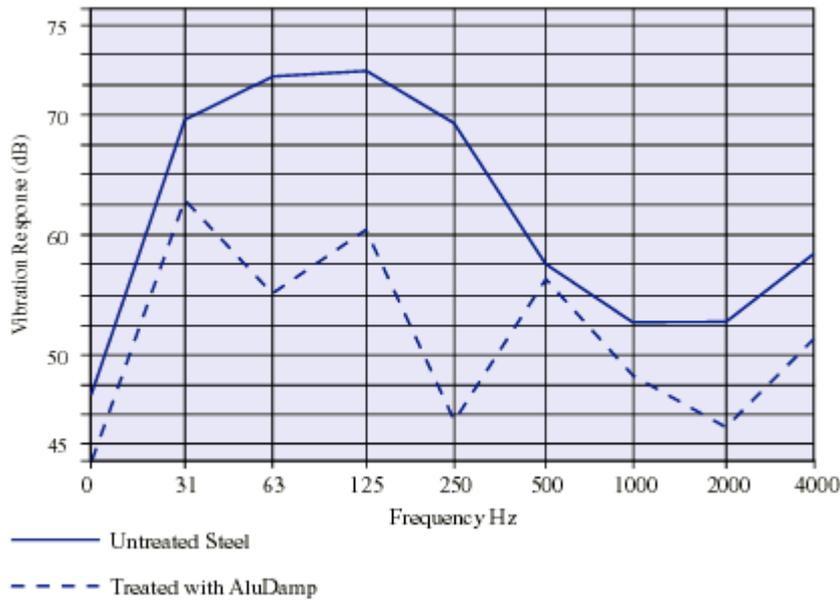
AluDamp can be used at continuous operating temperatures up to 120°C. Optimum damping is achieved at temperatures up to 75°C.

Fire Performance

AluDamp 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 AluDamp.



Dimensions and Weight

Product	Weight (kg/m ²)	Size (mm)	Thickness (mm)
AluDamp	1.45	1000 x 1000	0.5
	1.70	1000 x 1200	0.5
	2.00	1000 x 1500	0.5

Note: Other thicknesses are available ranging from 0.5mm to 2mm subject to minimum order quantities. Further details available on request.

Application and Fixing

The optimum damping performance of AluDamp is achieved when 70-80% of the substrate is covered.

To obtain optimum bond strength from the polymer on AluDamp, 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 AluDamp 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.