

# ACOUSTEEL

## What is Acousteel?

Acousteel is a leading sound deadened steel which can reduce unwanted noise and vibration by over 1000%. An invisible solution to noise and vibration, 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. It offers an effective and easy to implement solution to remove unwanted noise and vibration from any steel or aluminum sheets, panels or pressings which have inherent structural noise problems.

## How does Acousteel work?

Acousteel works by using constrained layer damping. This basically absorbs sound and/or vibration energy by the two skins of material moving relatively to one another. This movement creates shear strain, which in turn is dissipated as negligible heat. Incredibly, this creates up to a 30dB(A) reduction in sound which equates to a thousand-fold decrease in sound energy.

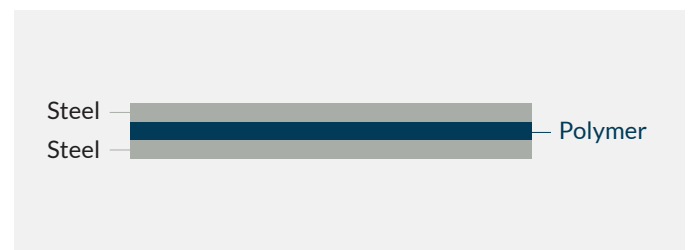
## Acousteel grades

The range of gauges is from 1mm (0.5mm +0.5mm) to 4mm (2mm + 2mm). The sound absorbing viscoelastic polymer thickness is a negligible thickness 0.06mm. Acousteel is available in most grades of steel including mild steel, Zintec, Galvanised, Precoat, Stainless 304 & 316 etc. In addition to steel, aluminum, copper and brass plate can also be laminated.

Acousteel is available in both symmetrical and asymmetrical formats, for example 2mm + 2mm (symmetrical) or 1mm + 3mm (asymmetrical) which is useful when the panel is folded.

## Acousteel the facts

- Acousteel can reduce unwanted noise and vibration by over 1000%
- Acousteel is cost effective compared to traditional solutions
- Acousteel is invisible simply by replacing existing parts



## Sectors

Manufactured in North East England and distributed globally, Acousteel can be utilised in a variety of applications and across a breadth of sectors, including;

- Automotive
- Construction
- Food Processing
- Hi-Fi
- Manufacturing
- Rail
- Ship Building

## Applications of Acousteel

- Acoustic Doors
- Architectural Panels
- Chutes and Hoppers (food industry)
- Conveyors
- Engine Encasements
- Flooring
- Heating and Ventilation
- Machine Guarding
- Power Generators
- Roofing (reducing rain noise)
- Wind Turbines

Acousteel can be manufactured to meet your bespoke requirements and our team of experts can support you on all aspects of the ordering process from materials and delivery, to dimensions, quantities and fabrication processes.



## 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

For further information on Acousteel, please contact our specialists on 0191 499 0244 or visit [www.acousteel.com](http://www.acousteel.com)