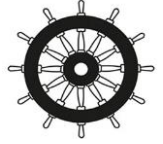


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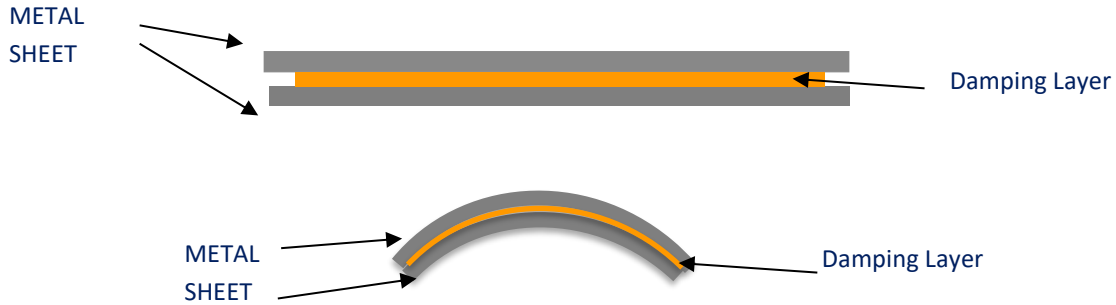
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NDS® COMPOSITE PANEL (STEEL & ALUMINUM)

Description

NDS® Composite Panel is a fully damped steel composite panel consists of two outer layers of steel or aluminum laminated together using a layer of a viscoelastic inner layer. Viscoelastic interlayer functions to damp disturbing structure-borne noise.

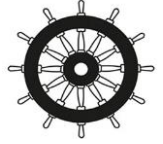
NDS® Composite Panel provides a significant vibration damping capacity in comparison to a normal metal sheet. The high loss factors make it very well suited for e.g. ceilings, walls and even floor systems. The system is based on the principal of sandwich anti-drumming with a constrained layer. When the NDS® Composite Panel starts to vibrate, the viscoelastic layer transforms vibration into thermal energy.



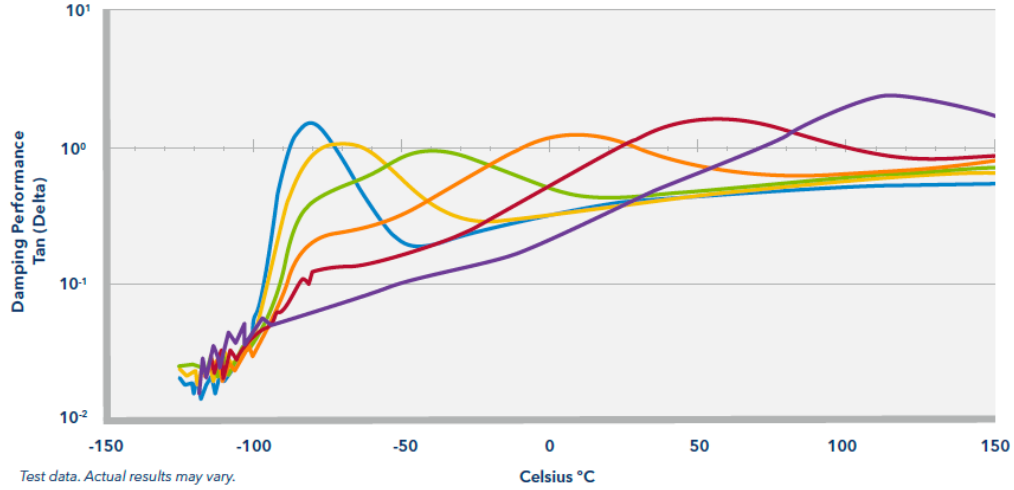
Acoustic Properties

While standard viscoelastic materials such as acrylic and rubber based adhesives shows damping performance capabilities at very narrow temperature ranges, viscoelastic layer used by NDS® demonstrates excellent performance at low, room and high temperatures intervals. Typical acoustic performance depicted below figure.

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Technical Data

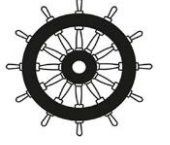
NDS® Properties

Material	Aluminum EN AW 5754 H111- EN AW 5083 H111 Steel Stainless steels (304 and 316), DKP steel, galvanized steel
Dimensions	1000 x 2000 mm Other dimensions are available on request
Thickness	1.25, 1.65, 2,05 mm (steel) 2.05, 4,05 mm (aluminum) (thickness of viscoelastic inner layer : 50 µm - 100 µm) Custom thicknesses are available on request
Coating/Color	Plain, Powder coating in RAL colors is available on request
Density	7400 kg/m ³ (Steel) 2600 kg/m ³ (Aluminum)

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Applications

- ✚ Engine rooms
- ✚ Enclosures for machinery, generator etc.
- ✚ Air ducts
- ✚ Automotive oil sumps, panels
- ✚ Acoustic wall panels
- ✚ Acoustic hoods and chutes
- ✚ HVAC equipment

Features

- ✚ Provides damping structure-borne sound at minimum thickness
- ✚ Replaces existing sheet metal
- ✚ Saves weight and thickness for damping noise
- ✚ Able to be power coated
- ✚ Acoustic performance at broad temperature range (-50 to 150 °C)