

DECIDAMP® CLS

constrained layer, vibration damping tile

Decidamp CLS is a constrained layer, visco-elastic damping material designed to reduce structural vibration and sound transmission within metals greater than 3mm in thickness. To achieve high-performance damping, Pyrotek engineering team provides an optimized system - a steel face and reinforced viscoelastic core specifically engineered to reduce vibration in heavy gauge structures. The semi-rigid tiles have a unique combination of good mechanical strength and visco-elastic properties that enable them to absorb large amounts of mechanical energy from vibrating substrates. Structures made from metal (steel, alloy, tin) and rigid plastics (ABS and FRP) can easily transmit noise throughout the construction when exposed to vibration.

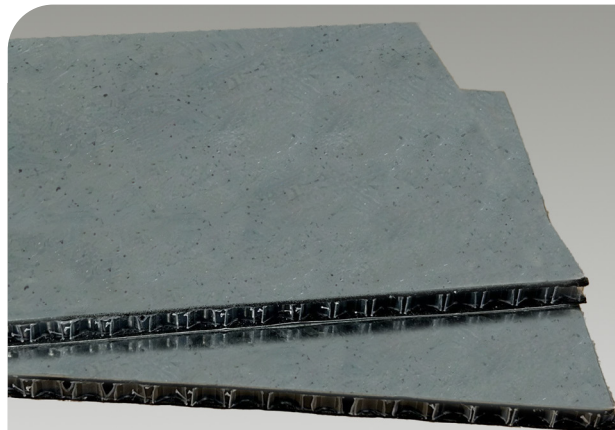
Applying Decidamp CLS to at least 70% of the structure, provides sufficient damping, resulting in reduced vibration, lower radiated noise and higher transmission loss.

Decidamp CLS is a high performance damping tile, with an optimal weight to performance ratio.

Decidamp CLS is a light weight damping tile, with an easy peel-and-stick backing, the application is faster than other insulation installation methods. The flexible and conforming viscoelastic layer ensures good contact and bond with the installation surface. Its high damping performance allows for a thinner constraining plate to be used in the composite – resulting in lighter metal plates than competing solutions. Further to saving weight, thinner plates increase flexibility and aid in installation on curved surfaces.

SPECIFICATIONS

Colour	Silver
Available	Sheet size: 285 x 190 mm (11.22 x 7.48 in) 295 x 295 mm (11.6 x 11.6 in)
	Steel thickness of 1.5 and 2mm available upon request depending on MOQ



applications

- Steel & rigid plastics (ABS, Fibre reinforced plastic, Carbon composite, etc) surfaces
- Marine vessels applications such as bulkheads, hull construction, tank tops, engine bed girders and the structure above props
- Heavy machinery panelling
- Generators, compressor covers and machine housing guards
- Metal air-conditioning ducts and compressor housings
- Laundry and garbage chutes, hoppers, lids and bins

features

- Free from lead and bitumen
- Lightweight and easy to handle
- Easy to install, high-tack self-adhesive backing, simply peel and apply pressure to position
- Easily conforms to irregular surfaces without the use of heat guns
- Remains flexible, does not become brittle
- Resistant to weather and UV light
- Great low frequency and broad frequency damping performance



PRODUCT SPECIFICATIONS

Product	Thickness (mm)	Nominal weight (g)	Sheet sizes (mm x mm)
Decidamp CLS 50	6.9	450	285 x 190 mm (11.22 x 7.48 in)
Decidamp CLS 100	7.4	625	

Tolerances: Length / Width: -0/+5 mm (0.2 in); Thickness: +/- 1 mm (0.04 in); Weight: -0/+10%

PRODUCT CODE NOMENCLATURE

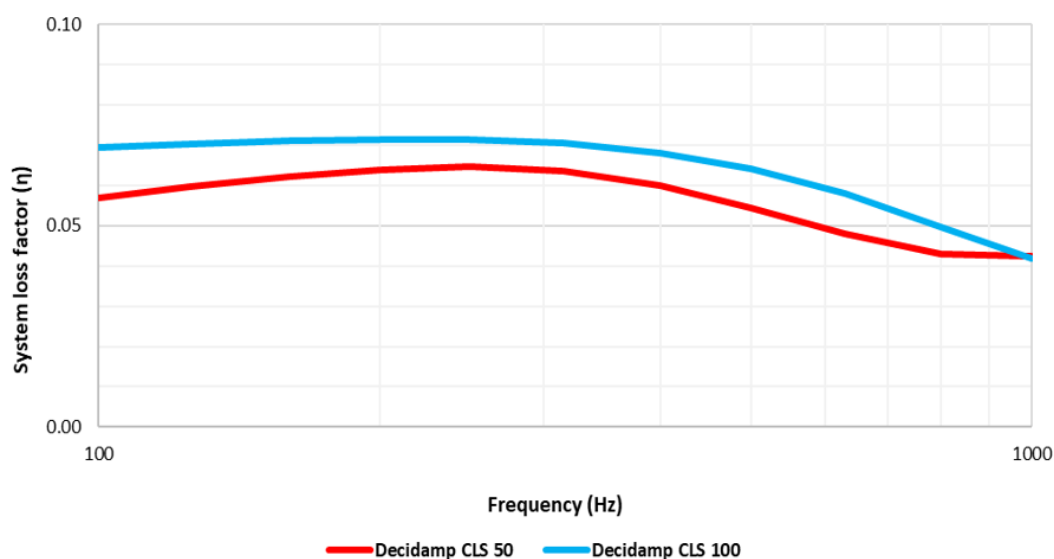
DECIDAMP **CLS** **50**

Constrained Layer Steel

Grade - thickness of constraining layer
Grades - 50 (0.5mm), 100 (1mm)

ACOUSTIC PERFORMANCE

Decidamp CLS on 5mm Steel



Tested to Pyrotek EMA (Experimental modal analysis) method

Test Report 18225CD