

Clearsorber

Absorption



*The First Fiber-free, Light-transmitting,
Microslotted Panel From The Acoustical
Industry's Leading Innovator*

Absorption with a View

Acousticians have long sought a fully transparent, absorptive finish to control reverberation in a room, while maintaining the view through glazing. RPG® is now offering a new patented micro-slotted, clear panel that provides significant mid and low frequency absorption. The DeAmp® Clearsorber™ Panel offers a long awaited solution to providing absorption with a view and is finding immediate application in architectural acoustics. The DeAmp® Clearsorber™ Panel is available as standard in Acrylic and virgin or recycled PETG in 2mm-15mm thicknesses. It provides absorption through high viscous losses as air passes through the slots, which are comparable in size to an air boundary layer. This inherent damping eliminates the need for fiberglass or other porous materials in the air cavity between the DeAmp® Clearsorber™ Panel and the reflective surface behind it. Thus it is now possible to provide particle free, absorption with a view. All that is necessary is an air cavity between the Clearsorber Panel and the rear reflecting surface.

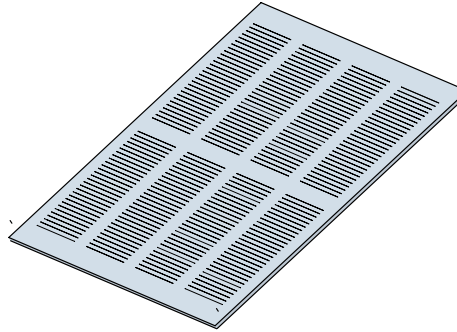
Problem and Solution

Problem

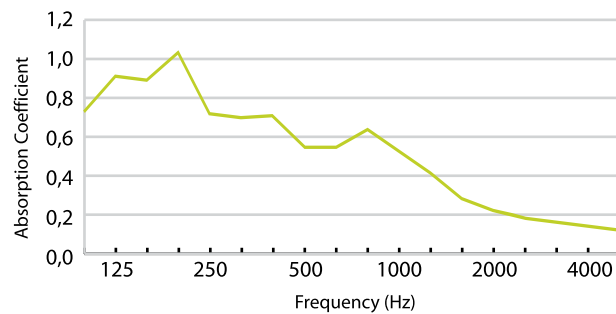
Acousticians have long sought a transparent, absorptive "glass-like" surface to control excessive reverberation in rooms with glazing or flat reflective surfaces.

Solution

RPG® is now offering a new patented fiber-free, microslotted, light transmitting, inherently damped panel absorber called Deamp® Clearisorber Panel, which provides excellent absorption, while maintaining visibility through the panel.



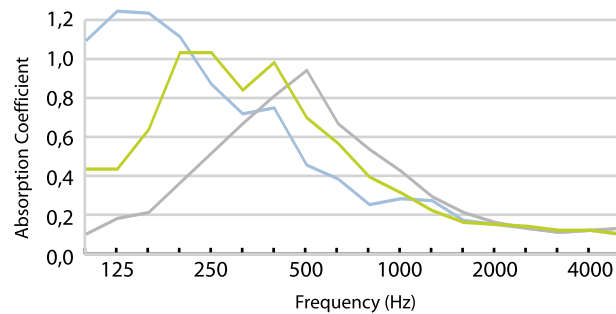
Performance Specifications



Suspension height, H (mm):

Layer 1: 110 mm ²⁾

This figure shows the absorption coefficient using double layers mounted 110 mm from the noise reflecting surface.



Suspension height, H (mm):

197 mm ²⁾

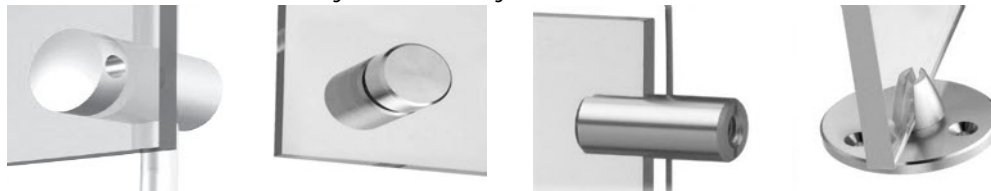
97 mm ²⁾

54 mm ²⁾

This figure shows the absorption coefficient when the absorbing panel is placed respectively 197, 97 and 54 mm from the noise reflecting surface behind.

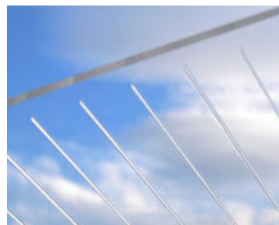
Installation

DeAmp panels can be mounted with exposed hardware as standoff pins or in wire systems. Customized solutions for mounting in front of light sources and window surfaces are also available.



Options and Colours

DeAmp acrylic series is available in transparent acrylics, frosted and in a wide range of colors. Our acrylic panels can also be engraved or printed on. DeAmp acrylic series has excellent UV resistance.



FEATURES

Patented Microslit Technology

Fibre Free Absorbing Surface

Light Transmitting

Inherent Damping

Slit Pattern can be Linear, Triangular, Sinusoidal or custom

From 2mm to 20mm thickness

Acrylic, PeTG or Recycled PeTG

BENEFITS

Inherent damping provided by an array of microperforations, offers high absorption in the mid-lows.

The Clearisorber Deamp panel is fiber-free and does not require any porous absorption in the cavity between the microperforated panel and the rear reflective wall.

Clearisorber Deamp is light transmitting and therefore can provide daylighting for Green credits.

The customizable slit pattern allows the architect to create interesting visual features.

The transparent and fiber-free nature of the Clearisorber Deamp means it can be used in front of glazing, thus offering absorption without compromising the view.

A wide range of thicknesses offers designers a multitude of installation options.

The Clearisorber Deamp may be hung with decorative hardware or attached directly to window mullions with a permanent or attachment or removable velcro attachment.

Acrylic or PeTG offer designers different visual and fire rating options

APPLICATIONS

All critical listening rooms, including recording studios, broadcast studios, vocal booths, home theaters, quality control rooms, CD mastering, film mix and dubbing stages, and music practice rooms, Offices, schools and the home

SPECIFICATIONS

Material: Cast Acrylic, PeTG

Thickness: From 2mm to 20mm

Colours: Coloured, Transparent or Translucent

Unit weight: 4 lbs.

Sound Absorption: NRC 0.45 - 0.55

Flammability: bs476 part 7, class 3, UL 4 - Hb PeTG bs476 Part 7 class 1y

