



DeAmp Sound Absorber Panels address the problem of sound reflections in hard surface rooms.

DeAmp Sound Absorbers Panels are the solution to controlling challenging acoustics caused by areas of glass or other hard surfaces.

The design trend of modern rooms that embraces "enclosed openness" can uniquely be addressed with the use of DeAmp's transparent or translucent panels without impacting the architect's or designer's vision for the space.

The panels will absorb the excess reverberation in hard-surface rooms, reducing the frenzy of unwanted noise. The use of DeAmp panels in these highly reverberant spaces will increase speech intelligibility while maintaining the designed visual openness.

ACOUSTIC TREATMENT INTEGRATED IN YOUR DESIGN

The DeAmp Panels absorb sound energy by airflow resistance in the micro-slits.

The micro-millimetre slits, and the pattern created in the panels, is the foundation of DeAmp A.S. International and U.S. patents.

CUSTOMIZABLE OPTIONS

Materials

- Transparent or Translucent (available in acrylic or PETG)
 - With patterned, coloured, translucent or transparent window-film applied
 - With edge-to-edge CMYK colour ink printing
 - With client-supplied high-resolution image, logo, or graphic design at 1200 lines per inch
 - Non-glare, frosted, or P95 'sign-white' diffused for rear lighting
 - UV filtering and surface hardening
 - Varying material thicknesses
- Metal
 - Aluminum
 - Powder coated with client-supplied high-resolution image, logo, or graphic design

Geometry

- Any shape that fits within:
 - Imperial: 4 ft x 8 ft & 5 ft x 10 ft sheet
 - Metric: 1.21 m x 2.43 m & 1.5 m x 3.1 m sheet
- Client to provide their desired dimensions
- *Larger sheets are available on special order*

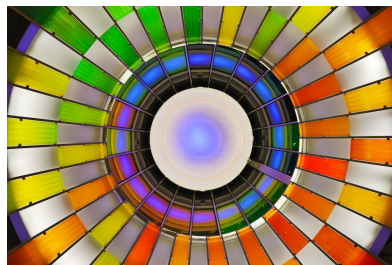
Mounting

Each project will be provided with a custom mounting design for:

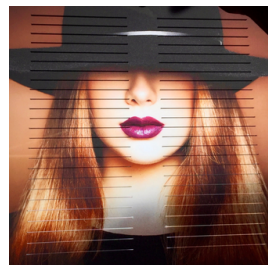
- Ceiling
- Wall
- Cable hung or tension cable
- Profiled channels
- *Client to provide details of the mounting surface*



Transparent



Translucent ink printed



High-res printed



Metal



Transparent with printed graphic design

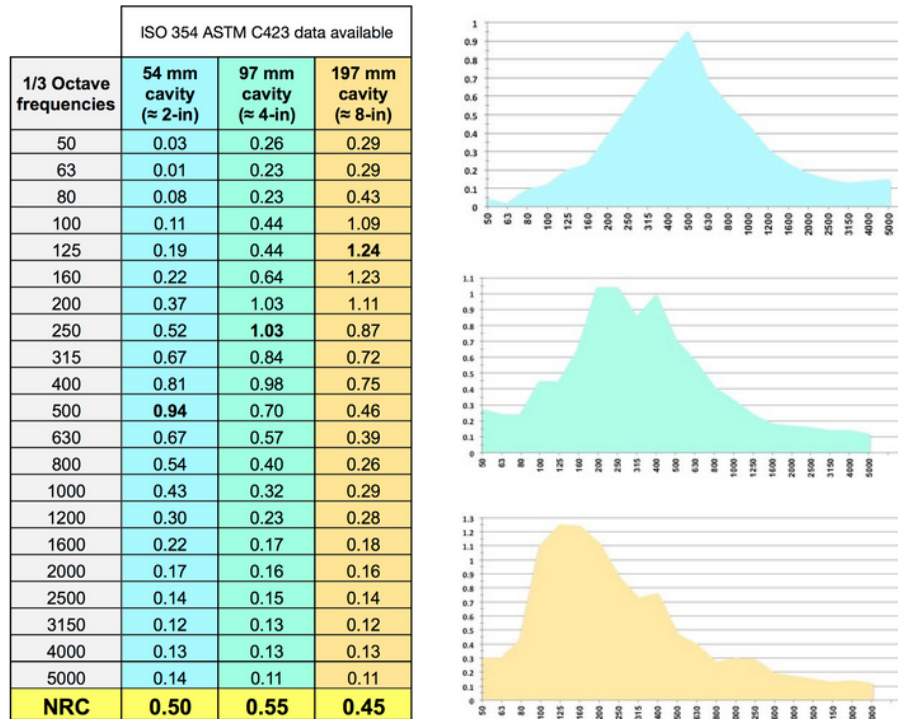


Patterned translucent window film

HOW DO DEAMP PANELS ABSORB SOUND?

Below is the ISO 354 laboratory test data with the DeAmp panels at approximately 2, 4, and 8 inches from a hard surface. The acoustic performance of DeAmp panels is tuneable, by varying the distance to the rear hard surface. By doubling the distance, the absorption centre-frequency drops by an octave.

DeAmp panels are specifically designed to be absorptive in the human-voice frequency range; unlike porous absorbers that typically absorb in the mid to lower-high frequency range. Porous absorbers absorb in a frequency range that can strip a room of speech intelligibility cues, which can make a space feel "dead".



HGC Engineering Canada has converted the ISO 354 test data to ASTM C423.
A signed engineering letter with the conversion is available upon request.

PHYSICAL PROPERTIES

Thickness (nominal)	5.0 mm	3/16"
Weight @ 5mm	5.8 kg/m ²	1.2 lbs/ft ²
Typical 4' x 8' panel	17.4 kg	38.4 lbs
Tensile Stress @ break	26 MPa	3,800 psi
Flexural Strength	77 MPa	11,200 psi
Deflection Temp @ .45 MPa [66 psi]	74°C	164°F
Softening Temp @ 1 kg load [2.2 lbs]	88°C	181°F
Optical Transmittance - clear panel	<91%	
Haze - clear panel	>1%	
Refractive Index - clear panel	1.57	
Flammability Classification	DIN4102-B1	UL94 (94V-2)

DeAmp panels are non-fibrous acoustic absorbers – plastic is recyclable back to monomer, please sort accordingly.