

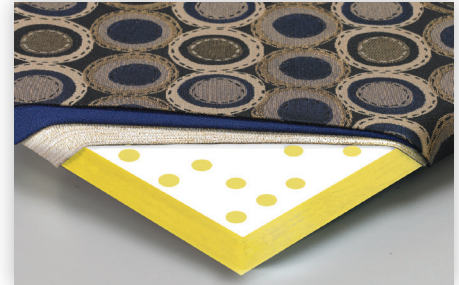
# RANDOM ABSORPTION DIFFUSION PANEL (RAD)



G&S Acoustics' Random Absorption Diffusion (RAD) panels use a randomly perforated facing sheet to create fabric panels that both absorb and diffuse sound. Using a pseudo random binary sequence, determined by using a Gaussian random number generator, the perforated pattern creates reflective and absorptive regions. The result is a panel that absorbs low and mid-frequencies according to thickness, while reflecting and diffusing the high frequencies.

The combination of acoustic absorption, reflection and refraction creates a very well rounded product if you want to reduce low and mid-frequency problems while still retaining the higher frequencies.

RAD panels are available in the following thicknesses: 1", 2", 3" and 4".



## CORE

Random perforated facing sheet, 6-7 pcf fiberglass, 1"-4" thick

## SIZES

Custom sizes and shapes up to 4'x8'

## MOUNTING

Adhesive, impaling clips, two-part Z-clips

## FINISH

Fabric

## EDGES

Square  
Hardened

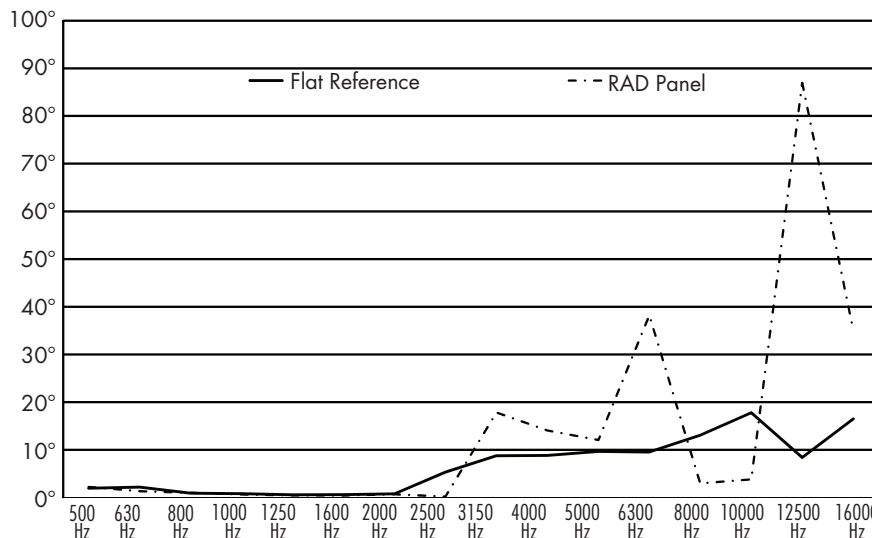
## CORNERS

Square

## FLAMMABILITY

All components have a Class "A" rating per ASTM E84

## RAD PANEL VS. FLAT REFERENCE, PHASE SHIFT



Flat Reference	1.94°	2.22°	0.90°	0.81°	0.60°	0.60°	0.78°	5.32°	8.77°	8.85°	9.69°	9.56°	13.08°	17.79°	8.38°	16.50°
RAD Panel	2.24°	1.33°	1.02°	0.65°	0.45°	0.43°	0.68°	0.20°	17.83°	14.06°	12.06°	38.22°	2.99°	3.83°	86.92°	35.19°

## SOUND ABSORPTION

Hz	125	250	500	1000	2000	4000	N.R.C.
RAD1	.30	.68	.87	.86	.64	.48	.75
RAD2	.77	.87	1.04	.77	.60	.48	.80
RAD3	.92	.87	.88	.81	.65	.50	.80
RAD4	.96	1.06	.99	.88	.68	.53	.90

Note: NRC test results based on our standard acoustically transparent fabric. Results may vary with other fabrics.

*Controlling  
Sound  
Beautifully*

