



Blue = Diffusion Coefficient (Mid)
 Light Blue = Diffusion Coefficient (High)
 Green = Scattering Coefficient (Mid)
 Light Green = Scattering Coefficient (High)
 Red = Absorption Coefficient - NRC = 0.30, SAA = 0.26

Additional test data is available – please see the Supplementary Acoustical Data Charts online or contact your local RPG Sales Representative.

Frequency (Hz)	Diffusion Coefficient (Blue-Mid)
315	0.00
400	0.09
500	0.41
630	0.39
800	0.41
1000	0.50
1250	0.33
1600	0.39
2000	0.62
2500	0.54
3150	0.52
4000	0.34
5000	0.34

PRODUCT OVERVIEW

Diffractal® was created to provide full-spectrum sound diffusion in a single integrated diffusor. By combining the self-similarity property of fractals with the uniform scattering property of the number-theoretic reflection phase grating, RPG created the **Diffractal®**. Given the appropriate width and depth, it is possible to provide diffusion over any desired bandwidth in one integrated surface/panel. Units are available in a high recycled content, ULEF, Class A fire-rated and FSC MDF core and FSC solid wood wells.

SIZING

- Standard Units: 23-5/8" W x 23-5/8" or 47-1/4" L x 9-1/8" D
- Maximum Panel: 23-5/8" W x 8' L x 9-1/8" D (Custom panel lengths up to 8' are available)
- Each Panel weighs approx. 8 lbs/ft²

CORE FIRE RATING

Class A (per ASTM E-84)

FINISH

Diffractal® is available in various finishes, including solid woods (Cherry, Mahogany, Maple, Red Oak, Walnut, White Oak) for acoustic wells, natural and engineered wood veneers, painted surfaces and laminates for vertical ribs and frames. RPG offers clear lacquer or factory color-matching of wood finishes and paint colors.

INSTALLATION

Diffractal® is designed to be surface mounted to a wall or ceiling with factory-integrated blocking. They can be installed singularly or in an array across walls and ceilings.