

QRD 734



The QRD® 734 has proven to be the most popular and versatile diffuser in the RPG® product line. Its wide bandwidth, low cost, and broad selection of finishes make it a logical choice for music education facilities, recording studios, worship spaces, auditoriums, theatres, and performing arts facilities. This one-dimensional diffuser is a modular, computer designed phase grating which produces a directional hemi disc polar response that can be oriented in any direction.

Acoustic Data

The wooden QRD® 734 or plexiglass Divisor™ contribute minimal absorption.

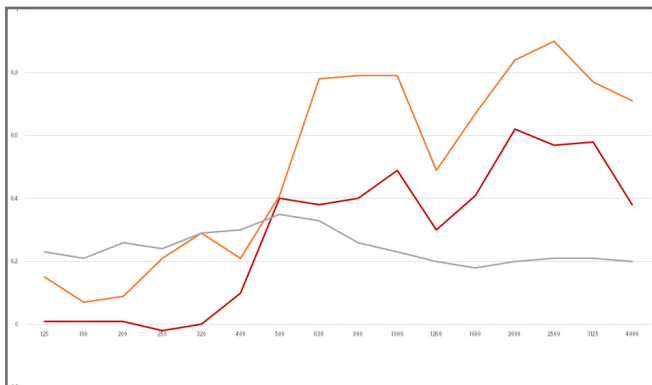
Compared to a flat reflector panel, the QRD® 734 offers significant diffusion above the diffraction limit of 565Hz, which is equal to the speed of sound (1130ft/sec) divided by the 2' dimension of the panel. As the frequency increases above 565Hz, the graph indicates how the reference reflector becomes more and more specular, whereas the QRD® 734 provides uniform diffusivity.

Installation

The QRD® 734 is typically mounted on a cleat and secured. For installations that require a flush mount the units are framed out much like an opening for a window.

Features

- Natural wood finish, paint finish, or transparent plexiglass
- Distinctive textured appearance
- Can be surface or flush mounted
- Can be oriented to provide two-dimensional diffusion in the far field
- Units join together seamlessly for a continuous appearance



Frequency	Diffusion	Scattering (ISO)	Absorption (A Mount)
125	0.01	0.15	0.23
160	0.01	0.07	0.21
200	0.01	0.09	0.26
250	-0.02	0.21	0.24
320	0	0.29	0.29
400	0.1	0.21	0.3
500	0.4	0.41	0.35
630	0.38	0.78	0.33
800	0.4	0.79	0.26
1000	0.49	0.79	0.23
1260	0.3	0.49	0.2
1600	0.41	0.67	0.18
2000	0.62	0.84	0.2
2500	0.57	0.9	0.21
3125	0.58	0.77	0.21
4000	0.38	0.71	0.2

