

QRD 734



Patented: D291, 601

Problem

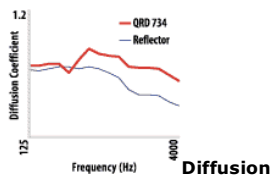
Interfering reflections that degrade speech intelligibility, gain before feedback, and music quality can be controlled by absorption and diffusion. Since commercial surfaces that provided uniform diffusion over a wide frequency range and for all angles of incidence were not available, absorption was used solely to control reflections. This treatment created "dead" spaces.

Solution

In 1983, RPG® introduced the first commercial QRD® Diffuser, based on mathematical number theory. Now a predictable diffusive surface treatment is readily available.

The QRD® 734 has proven to be the most popular and versatile diffuser in the RPG® product line. It's 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 hemidisc polar response that can be oriented in any direction. It also provides low frequency absorption below the design bandwidth due to the RPG pressure gradient mechanism.



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 diffusion

Absorption

The wooden QRD® 734 or Plexiglas Diviewisor™ contribute minimal absorption. The low cost Kydex® Formeddiffuser™ is designed to provide additional low frequency absorption.

Features

QRD® sound diffusion

Custom Finishes are available Distinctive textured appearance Can be surface or flush mounted Can be oriented to provide two dimensional diffusion in the far field

Benefits

Attractive finish allows its use in a variety of decors

Can be used to control unwanted reflections without adding additional absorption

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.

Applications

Recording studios, Music education facilities, Band rooms, Post production studios, Home theater, Worship spaces, Auditoriums, Performing arts centers

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