



## **KINETICS® Geometric Diffusers**

### **SOUND DIFFUSERS**

The shaped surfaces of Kinetics' Geometric Diffusers break up direct sound reflections and disburse them more evenly throughout the listening space.

Random disbursement of sound reflections greatly improves sound quality and consistency for the listener. That's why Geometric Diffusers are perfect for band and choral rehearsal rooms and performance spaces. The shaped surfaces of the Diffusers break up direct sound reflections and disburse them evenly throughout the listening space. Auditoriums will benefit with the use of Diffusers on the rear and side walls.

Available in two standard shapes, offset pyramidal and radius, Geometric Diffusers are commonly used in conjunction with Kinetics' acoustical wall panels; a combination of sound diffusion and absorption that greatly improves overall room acoustics. Geometric Diffusers are also used in lay-in 15/16" standard grid ceilings (can be factory modified for 9/16" grid, please specify when ordering).

Diffusers are provided in a white thermo-molded copolymer. Optional painted surfaces are available. All radius and pyramidal diffusers are available with optional fabric facing using factory approved materials.

# Geometric Sound Diffusers

## DESCRIPTION

Geometric sound diffusers for wall mounting or lay-in ceiling

## COMPOSITION

0.125" thick, thermo-molded plastic

Optional fabric facing with fabric from Guilford of Maine, or factory-approved, customer-selected material

Field paintable

Optional fiberglass batt insulation or damping layer can be bonded to concave rear surface of diffusers

Radius Diffusers available in 2' x 2', 3' x 3', 2' x 4', 3' x 4', 4' x 4', 3' x 6', and 4' x 6' (nominal sizes)

Offset Pyramidal Diffusers available in 2' x 2', 2' x 4' and 4' x 4' (nominal sizes)

## FIRE TEST DATA

Class A per ASTM E84

## APPLICATIONS

Areas where more consistent sound levels across a wide frequency range are desired

Auditoriums/Lecture Halls

Band/Choral Rehearsal Rooms (Walls/Ceilings)

Music Performance Spaces

## MOUNTING

Wall Mounting with Z-Clip and angle brackets.

Lay-in ceiling with 15/16" suspension grid.

## ACOUSTICAL PERFORMANCE

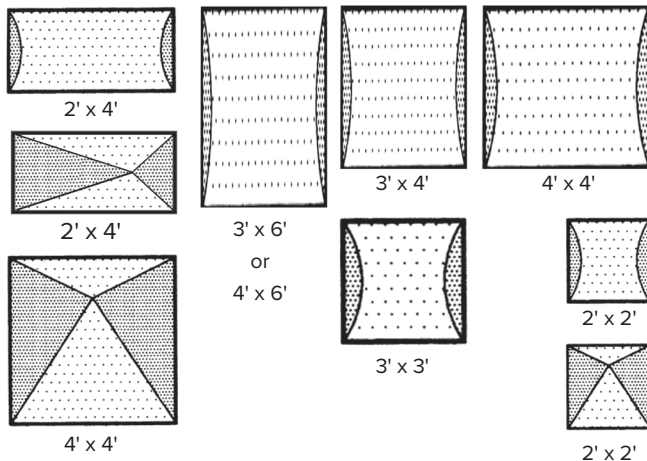
Per ASTM C423. Thermo-mold plastic units.

Frequency, Hz	125	250	500	1000	2000	4000	NRC
A Mounting <sup>1</sup>	0.48	0.12	0.10	0.05	0.03	0.03	0.10
E400 Mounting	0.36	0.15	0.09	0.07	0.05	0.10	0.10
J Mounting <sup>2</sup>	1.11	0.43	0.34	0.24	0.18	0.19	0.30

<sup>1</sup>(Flush to Wall)

<sup>2</sup>(Flush to Wall, panel array staggered) with fiberglass fill (1 PCF) and fabric facing

## STANDARD COPOLYMER DIFFUSERS



\*Actual width and length dimensions for all diffusers except the 4' x 6' model are 1/4" less than the nominal dimensions listed. This allows for installation in a lay-in ceiling grid.



*Pyramidal Diffusers*



*Radius Diffusers*



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