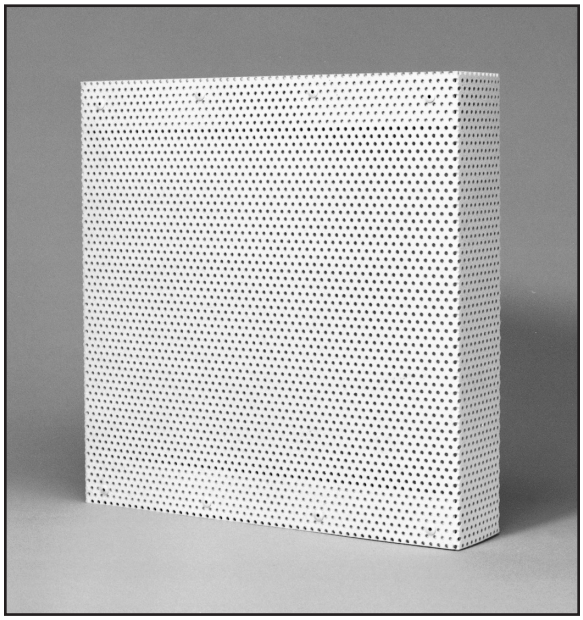
KINETICS™

Panel Absorbers

Model KNP

A Reverberant Noise Control Product



Description

A highly durable, abuse resistant perforated metal acoustical panel. Available with a flat or V-groove surface.

Kinetics Model KNP Panel Absorbers are functional and aesthetically pleasing perforated panels which are used to control reverberant noise problems in factories, waste water treatment facilities, pump rooms, equipment yard barrier walls and other factory and enviromental applications. Although primarily intended as an absorber, the panels will act as a barrier when a solid back is added. KNP panels are also useful as additions to existing metal or concrete barriers to reduce reverberation time and to lower reflected sound.

Application

Kinetics Model KNP Panels are excellent sound absorbers over a wide frequency range. Their acoustic properties combined with their appearance and rugged durability make them a perfect choice for controlling reverberant noise problems. KNP Panels are suitable for outdoor use and are ideal for installation over existing barrier walls and are excellent in resisting damage from impacts, abrasion, or moisture.

Panels can be attached to walls, ceilings, or other surfaces and can be located in a manner to achieve an aesthetically pleasing pattern.

KNP Panels are also available with optional rear backing to increase their transmission loss and be used as a barrier. In addition, KNP Panels can be faced with perforated material on both sides and used as hanging baffles.

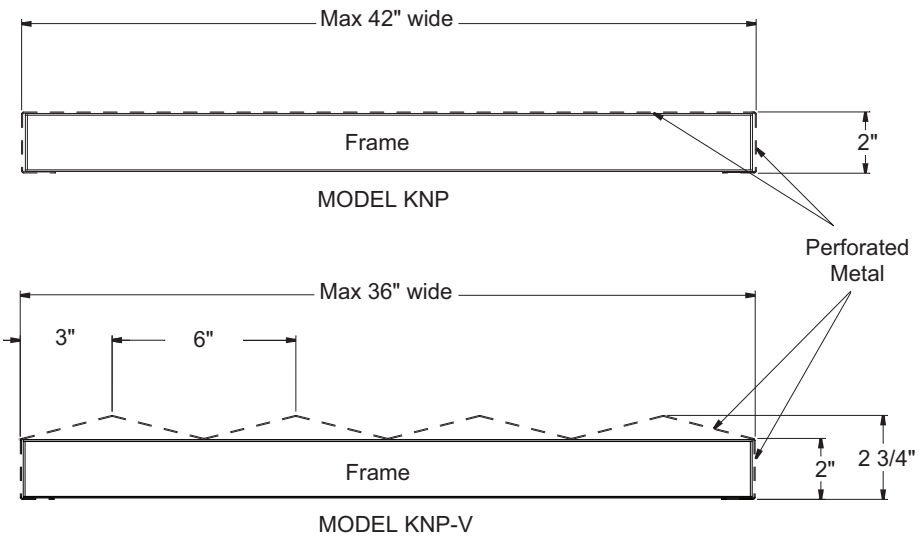
For optimum performance, panel selection and spacing should be done by a professional based on elevation of existing room acoustics and desired results.

Acoustical Performance

Sound Absorption per ASTM C-423.
Type A Mounting

Frequency, Hz	125	250	500	1000	2000	4000	NRC
Absorption Coefficient	0.22	0.77	1.12	1.00	0.78	0.57	0.90

Note: Stand off brackets (*optional*) will increase sound absorption



Composition

20 or 22 gauge perforated galvanized steel or 0.040 perforated
aluminum covering a glass fiber absorber in a heat sealed black
poly vinyl bag. Solid channel framing for panel stability.

Fire Test Data

Class A per ASTM E84

Sizes and Tolerances

Model KNP, 2" thick Flat Face
Standard sizes up to 42" wide x 120" high or 114" wide x 48" high
Special order up to 54" wide x 144" high or 138" wide x 60" high

Model KNP-V, 2" thick V-Groove Face
Standard sizes up to 36" wide x 120" high or 96" wide x 48" high
Special order up to 48" wide x 144" high or 132" wide x 60" high
(*V-Grooves run vertically*)

Tolerances

Models KNP and KNP-V panels are built to plus or minus 1/8 inch
tolerances for length, width and squareness (*Diagonal measurement*).

Mounting

Z-Clips (*top*), L-Clips (*bottom*) standard.
Optional: Stand-off brackets or J - Channel (*bottom*), Z-channel (*top*)

KINETICS Noise Control

kineticsnoise.com
sales@kineticsnoise.com
1-800-959-1229

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We reserve the right to make changes to this and all products without notice.