

KINETICS®

Perforated Metal Acoustical Panels Model KNP



Description

Kinetics KNP panel absorbers are highly durable acoustical sound absorbers. Ideal solution to airborne noise problems in demanding environments. Available with a flat or V-groove surface.

KNP perforated metal acoustical panels are functional and aesthetically pleasing perforated panels which are used to control reverberant noise problems. Although primarily intended as an absorber, KNP panels will act as a barrier when a solid back is added. KNP sound absorbing panels are useful as additions to existing metal or concrete barriers to reduce reverberation time and to lower reflected sound.



Application

KNP perforated metal acoustical panels deliver ample sound absorption over a wide frequency range. KNP acoustical properties, appearance, and rugged durability make it the choice for controlling reverberant noise problem in factories, waste water treatment facilities, pump rooms, mechanical equipment yards, gymnasiums, natatoriums, multi-purpose rooms, and recreational facilities. KNP panel absorbers 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.



KNP panels can be attached to walls, ceilings, or other surfaces and can be located in a manner to achieve an aesthetically pleasing pattern. These sound absorbing panels are available with optional rear backing to increase transmission loss and be used as a barrier. Available faced with perforated material on both sides and used as hanging absorptive baffles.

Finish

KNP perforated metal panels are available factory powder-coat finish per selection of POWDURA® RAL Series Super Durable TGIC FREE Polyester Powder Coatings, color matching or mill/unpainted.

Composition

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.

Applications

Reverberant, noisy spaces where panels must resist damage from impacts, abrasion, or moisture.

- Factories
- Waste Water Treatment Facilities
- Pump Rooms
- Mechanical Equipment Yards
- Gymnasiums
- Natatoriums
- Multi-Purpose Rooms
- Recreational Facilities.

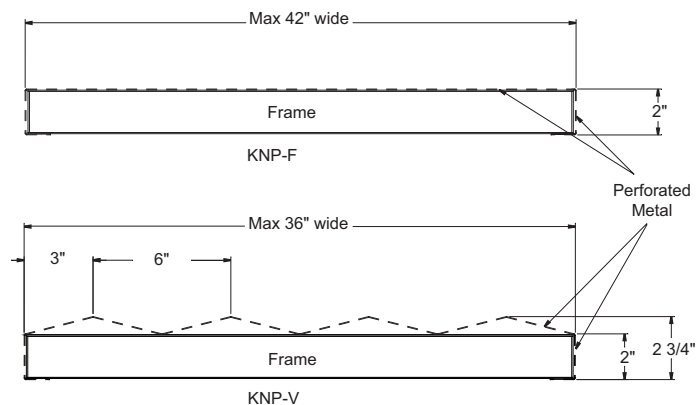
Acoustical Performance

Sound Absorption per ASTM C423.

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: Offset brackets (*optional*) will increase sound absorption



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Fire Test Data

Class A per ASTM E84

Sizes and Tolerances

KNP-F, 2" thick Flat Face; maximum 42" wide x 120" high or 114" wide x 48" high. Sizes up to 54" wide x 144" high or 138" wide x 60" high available as special order.

KNP-V, 2-3/4" thick V-Groove Face; maximum 36" wide x 120" high or 96" wide x 48" high. Sizes up to 48" wide x 144" high or 132" wide x 60" high available as special order.

Note: KNP-V panels are sized in increments of 6", the width of each V ridge. Minimum panel size is 12" wide. *V-grooves run vertically*

Tolerances - KNP-F and KNP-V panels are built to plus or minus 1/8 inch tolerances for length, width and squareness.

Diagonal measurement

Mounting

Standard: Z-Clips (top), L-Bottom Support Angles
Options: Z-Channel (top); J-Channel (bottom);
Offset Brackets - 1", 2", 3", 4"