

# KINETICS®

## Perforated Metal Acoustical Panels Model KNP



### Description

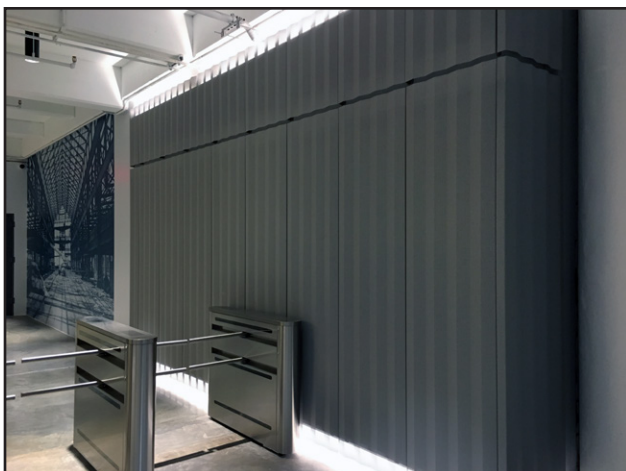
KNP perforated metal panels are highly durable acoustical sound absorbers. Ideal solution to air-borne noise problems in demanding environments. Available with a flat or V-groove surface.

KNP metal acoustic panels are functional and aesthetically pleasing perforated panels which are used to control reverberant noise problems. Although primarily intended as an absorber, KNP perforated metal 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 acoustic 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 sound absorbing 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.



KNP perforated metal 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, galvanneal, if painted, 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.

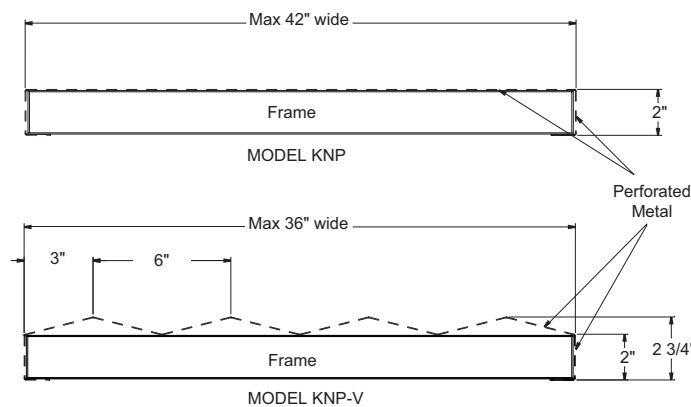
### Acoustical Performance

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



### Fire Test Data

Class A per ASTM E84

### Sizes and Tolerances

**KNP-F**, 2" thick Flat Face; up to 42 inches wide × 120 inches high (1067 mm × 3048 mm).

Flat (KNP-F) panels also available as four-sided fold in: up to 42 inches wide × 114 inches high (1067 mm × 2896 mm).

**KNP-V**, 2-3/4" thick V-Groove Face; up to 36 inches wide × 120 inches high (914 mm × 3048 mm) or 108 inches wide × 48 inches high (2734 mm × 1219 mm).

Note: KNP-V panels are sized in increments of 6 inches (152 mm), the width of each V-ridge.

Minimum panel size is 12 inches (305 mm) wide.

**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"



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