



KINETICS® KNC

NOISE CONTROL CURTAINS

Description

Kinetics KNC noise control curtains are modular, reinforced limp mass vinyl panels or vinyl and quilted fiberglass barrier/absorber composites designed to contain noise or to act as a movable barrier between noisy and quiet areas. KNC curtains incorporate a self-supporting track which allows the curtain to open for access at virtually any point along the system.

Kinetics noise control curtains are available from 0.50 to 2.50 PSF (2.5 to 12.5 kg/m²) surface weight. The systems are typically used for applications where accessibility, toughness, oil and chemical resistance, and an attractive appearance are required. Curtain systems can yield noise reduction of 12-15 dBA.

KNC-50RB and 100RB are reinforced vinyl barriers.

KNC-50RBQ and 100RBQ have an aluminum-faced, quilted fiberglass absorber towards the noise source to block sound from escaping and to absorb sound that is reflected.

KNC-50BQQ and 100BQQ are vinyl barriers completely encased in quilted fiberglass absorber and are designed where additional absorption and Class A flame and smoke test requirements are needed.

Standard BQQ curtain panels are 48" (1219 mm) wide and standard RBQ curtain panels are 54" (1372 mm) wide. BQQ and RBQ are available in lengths of up to 20' (6096 mm).

KNC-50C and 100C clearview curtains or windows are available. Kinetics KSD strip doors and clear vinyl windows are easily incorporated into curtain systems for visual and personnel access.

Application

KNC curtain systems can be used as a partial barrier or complete enclosure around noise sources. Curtain panels are more versatile and economical than a rigid panel. Typical applications include:

- Blowers
- Punch Presses
- Compressors
- Pumps
- Granulators
- Generators

Attachment

Each curtain panel is furnished with Velcro®, self-adhering, nylon closures along the entire length of each edge and heavy-duty grommets along the top.

Channel support systems for curtains are standard 1.625" x 1.625" (41 mm x 41 mm), 12-gauge rolled channel that can be floor-mounted or suspended. Curtain panels can be attached to the support system by trolley assemblies for movable curtains or fixed to the support system by mechanical fasteners for non-movable curtains. Kinetics engineering can design structured steel support frames as needed.



Absorption Characteristics

Product	Octave Band Frequency (Hz)						
	125	250	500	1000	2000	4000	NRC
Q1 - 1" Quilt	0.12	0.47	0.85	0.84	0.64	0.62	0.70
Q2 - 2" Quilt	0.08	0.33	0.79	1.02	1.04	1.02	0.80
Q4 - 4" Quilt	0.30	0.83	1.16	1.18	1.10	1.07	1.10

Sound Transmission Loss (dB)

ASTM E90-90

Product	Weight		Frequency (Hz)						
	lb/ft ²	kg/m ²	125	250	500	1000	2000	4000	STC*
KNC-50RB	0.5	2.44	12	13	16	21	27	32	21
KNC-100RB	1.0	4.89	13	17	21	28	33	40	26
KNC-50RBQ	0.7	3.4	6	12	17	27	38	46	23
KNC-100RBQ	1.3	6.4	10	16	22	30	42	49	27
KNC-50BQQ	1.0	4.9	7	12	18	31	46	50	24
KNC-100BQQ	1.5	7.4	11	16	28	41	50	53	29
KNC-200BQQ	2.5	12.5	16	20	30	40	51	55	33
KNC-50C	0.5	2.44	13	13	17	22	27	31	20
KNC-100C	1.0	4.89	19	19	23	28	33	37	26

*Per ASTM designation E413-87

KEY

RB: Reinforced Barrier
 B: Non-Reinforced Barrier
 Q: Quilt

Silicone faced quilt is also available

Specifications

Noise Control curtain systems shall consist of panels which meet the specifications and physical properties of the curtain material. Each panel shall be furnished with Velcro® self-adhering nylon closures along the entire length of each edge.

Support points at the top of each panel shall be reinforced at grommet locations not more than 12" (305mm) apart. Support systems for curtains shall be 1.625" x 1.625" (41mm x 41mm) 12-gauge formed channel with associated hardware as designed by Kinetics Noise Control.

Complete system shall be model KNC as manufactured by Kinetics Noise Control, Inc.

Product Descriptions

KNC-50RB: Reinforced barrier
KNC-100RB: Reinforced barrier
KNC-50RBQ: Reinforced barrier with quilting on one (1) side
KNC-100RBQ: Reinforced barrier with quilting on one (1) side
KNC-50BQQ: Barrier quilting on both sides
KNC-100BQQ: Barrier quilting on both sides
KNC-200BQQ: Barrier quilting on both sides
KNC-50C: Clearview barrier
KNC-100C: Clearview barrier



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