



KINETICS® KFA-ENV & KBC-ENV

OUTDOOR SOUND CURTAINS

Description

Kinetics KFA-ENV fiberglass absorbers and KBC-ENV fiberglass absorber/barrier composites are UV resistant acoustical attenuating blankets and blanket/barrier composites that reduce reverberant (reflected), and block transmitted, airborne noise. A cost effective solution to controlling noise, these flexible quilted absorbers and composites are flame resistant, tear and rot resistant, and possess high tensile strength. Kinetics Outdoor Sound Curtains can withstand a wide temperature range, be cleaned, and are unaffected by moisture, humidity, dust, dirt, oils and most chemicals. These flexible quilted absorbers and composites are easy to install, will not degrade, and have extremely long service lives.

Application

Outdoor Sound Curtains are used in outdoor applications where low frequency noise absorption and sound blocking are required.

- Chillers
- Compressors
- Air Handling Equipment
- Pumps
- Construction Site Noise



Specifications and Physical Properties

Fiberglass Batting

Form: Fiber diameter 4-6 microns

Resin Binder: Thermosetting phenolic, 3-5% content by weight

Density: 2 lb. pcf (9.8 kg/m³) (nominal)

Thermal Conductivity: K=.25 (BTU in./°F x sq. ft. x hr.) @ 75°F mean.
(44.3 cal/in. x °C x sq. cm x hr. @ 24°C mean)

Facing

Product Properties	Test Method	Results
Base Fabric	NA	9 x 9 1000D Polyester
Weight	5041	14 oz. PSY
Embossing	NA	Leather
Tensile Strength	5100 (warp x fill)	200 x 200 lbs (+/-20)
Tear Strength	5134 (warp x fill)	70 x 70 lbs (=/- 10)
Hydrostatic Resistance	5512	370 PSI
Flame Resistance	MVSS-302	warp x fill
After Flame	seconds	2 x 2
Char Length	inches	3.5 x 3.5

Quilting Thread

(N) (A)

Polyester - per Fed. Spec. V-T-2850

Absorption Characteristics, Octave Band Frequency (Hz)

ASTM-C423

Product	125	250	500	1000	2000	4000
KNC-ENV	1.28	0.98	0.56	0.26	0.10	0.11

Transmission Loss Characteristics, Octave Band Frequency (Hz)

ASTM-E90

Product	125	250	500	1000	2000	4000
KFA-60A/A-ENV	5	9	18	27	33	34
KBC-ENV-100BQQ	11	14	28	35	41	48

KFA-60A/A-ENV – Nominal 6-inch thick quilt with environmental resistant facing

KBC-ENV-100BQQ – 2- layers of nominal 1.5 inch thick quilt with 1.0 psf mass-loaded vinyl barrier with environmental resistant facing.



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