

Echo Eliminator™

Acoustical Backer

Recycled Cotton Absorptive Backer

DESCRIPTION

Echo Eliminator acoustical backer is a non-woven bonded cotton product that offers excellent acoustical and thermal performance. Made from a blend of natural fibers, our backer contains no fiberglass and does not itch or cause skin irritation. The face of the cotton is overlaid with a durable, acoustically invisible and fire-resistant black fabric that provides additional strength to the product as well as a shadow-like black appearance. Both the insulation and the facing are treated with an EPA registered anti-microbial agent.

APPLICATIONS

Echo Eliminator acoustical backer is used to back products like perforated and linear wood and metal wall and ceiling systems to absorb unwanted noise from multiple sources. It also reduces heat gain or loss and contains no harmful irritants and is safe to handle and install.

FEATURES & BENEFITS

- Excellent noise absorption
- Class A Fire Rated
- Reduces heat loss/gain
- No formaldehyde
- Resists microbial growth
- Low air resistance
- No itch or skin irritation



Acoustical Performance

Sound Absorption was tested in accordance with ASTM C 423 using a Type A mounting per ASTM E 795.

PRODUCT		ABSORPTION COEFFICIENTS@ OCTAVE BAND FREQUENCIES (Hz)						
Thickness Inch (mm)		125	250	500	1000	2000	4000	NRC
1	(25)	.07	.33	.72	.99	.93	.96	.75

Physical Properties

PROPERTIES	PERFORMANCE	TEST METHOD
Operating Limits Temperature Velocity	Maximum 250° (121°C) 5000 fpm	ASTM C411 ASTM C1071*
Surface Burning Characteristics (Fire Hazard Classification)	Flame Spread Max: 25 Smoke Developed Max: 50 Class A/Class 1	ASTM E84 UL 723 NFPA 255
Corrosion Resistance	Pass - Non-Corrosive	ASTM C739
Fungi Resistance	Pass - No Growth	ASTM G21 ASTM C1338 ASTM C739
Bacteria Resistance	Pass - No Growth	ASTM G22
Water Vapor Absorption	Less than 1% by Weight	ASTM C1104

*While not passing It is our interpretation that ASTM C 1071, Section 12.7 does not apply as it refers to glass fiber.

Standard Available Sizes

THICKNESS	DENSITY	WIDTH	LENGTH	SQ. FT. ROLL
1/2"	3.0	48"	100'	400
1"	1.5	48"	100'	200
1-1/2"	1.5	48"	25'	100
2"	1.5	48"	25'	100

Custom Sizes

THICKNESS	DENSITY	WIDTH	LENGTH
1/2"	3.0	35" - 60"	100'
1"	1.5	35" - 60"	50'
2"	1.5	35" - 60"	25'

Product Compliances

Echo Eliminator Backer has the physical properties that regularly meet the requirements of the following current specifications, standards, and codes.

FIRE SAFETY STANDARDS

- NFPA 90A Installation of Air Conditioning and Ventilating Systems
- NFPA 90B Installation of Warm Air Heating and Air Conditioning System

BUILDING CODES

- ICBO International Conference of Building Officials
- BOCA Building Officials and Code Administrators
- CABO Council of American Building Officials
- SBCCI Southern Building Code Congress International

Thermal Performance

Tested in accordance with ASTM C 518

PRODUCT		K-VALUE		C-VALUE		R-VALUE	
Thickness*							
Inch (mm)		Btu•in/(h•ft²•°F)	W/(m²•°C)	Btu/(h•ft²•°F)	W/(m²•°C)	R	(m²•°C)/W
1/2	(13)	.25	.036	.50	2.84	2.0	.35
1	(25)	.25	.036	.25	1.42	4.2	.74
1-1/2	(38)	.25	.036	.17	0.97	6.0	1.06
2	(51)	.25	.036	.13	0.74	8.0	1.41

• Thermal conductance (C) and resistance (R) values are derived from the material thermal conductivity (k) value. • 1 Inch Liner actual manufactured thickness = 1.05 inch.



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