



ULTRA HIGH DENSITY HEMP ACOUSTIC PANELS

Renewable hemp fiber panels for OEM acoustic product development

Green Fox Companies' Ultra High-Density Hemp Acoustic Panels are engineered for acoustic manufacturers seeking a truly fiber-based alternative to fiberglass that doesn't compromise on performance. As an OEM partner, we supply consistent, specification-driven panels in 1" and 2" thicknesses designed to integrate seamlessly into existing product lines and fabrication workflows.

Renewable, Carbon-Capturing Fiber Core

Our panels are manufactured from industrial hemp fiber, a rapidly renewable agricultural resource with one of the fastest biomass growth cycles of any commercial crop. Hemp sequesters significant amounts of CO₂ during cultivation, and that carbon is effectively stored in the finished panel for the life of the installation. By shifting from mineral or petrochemical inputs to hemp-based fiber, manufacturers can materially improve the embodied carbon profile of their acoustic products and support lower-carbon building strategies.

Easy Product Expansion

By partnering with Green Fox, acoustic manufacturers can quickly add a renewable, carbon-conscious, high-performance fiber core to their product lineup—without retooling their entire production process.



Engineered for OEM Integration

As an OEM manufacturer, Green Fox Companies focuses on repeatable quality and supply reliability:

- Available in 1" and 2" standard thicknesses, with consistent density and dimensional stability.
- Customizable to your specifications, including density, rigidity, thickness, weight and other core performance attributes to align with your product and testing requirements.
- Compatible with common cutting, routing, lamination, and framing operations used for existing fiberglass-based SKUs.
- Suitable for a wide range of facings, from standard acoustical fabrics to perforated surfaces and composite assemblies.

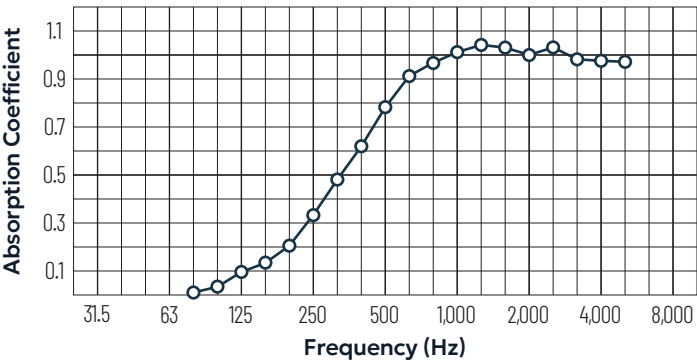
1-INCH THICK UHD HEMP ACOUSTIC PANELS

WIDTH: 24", 48" DENSITY: 9 PCF
LENGTH: 48", 96" MOUNTING: Type A

PROPERTIES	ASTM	RESULTS
Class A	E84	Flame Spread: 10 Smoke Developed Index: 15
NRC	C423	0.80

1/3 Octave Sound Absorption Coefficients
at the Octave Band Frequencies

125 Hz	250	500	1,000	2,000	4,000	NRC	SAA
0.09	0.33	0.78	1.01	1.00	0.97	0.80	0.78



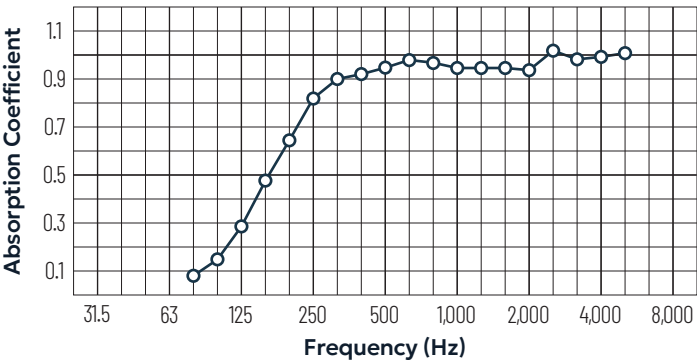
2-INCH THICK UHD HEMP ACOUSTIC PANELS

WIDTH: 24", 48" DENSITY: 8 PCF
LENGTH: 48", 96" MOUNTING: Type A

PROPERTIES	ASTM	RESULTS
Class A	E84	Flame Spread: 10 Smoke Developed Index: 25
NRC	C423	0.90

1/3 Octave Sound Absorption Coefficients
at the Octave Band Frequencies

125 Hz	250	500	1,000	2,000	4,000	NRC	SAA
0.28	0.85	0.95	0.95	0.94	0.99	0.90	0.92



PANEL PERFORMANCE

Exceptional Acoustic Properties

Ultra high-density hemp fiber delivers outstanding sound absorption characteristics, with a fine fiber structure and tortuous air paths that dissipate sound energy efficiently. When properly faced and installed as part of a completed system, 1" and 2" panels can achieve performance comparable to traditional fiberglass cores across speech and music-critical frequency ranges. This makes them ideal for wall and ceiling baffles, clouds, acoustic art panels, and integrated systems in commercial, institutional, and residential environments.

Class A Fire Rating

Green Fox acoustic panels are engineered to meet stringent fire performance requirements, including a Class A fire rating as a core material when tested under applicable standards. This enables manufacturers to specify hemp-based cores in projects where code compliance and safety are non-negotiable, while still delivering a natural, plant-based solution.

PHOTO GALLERY

