

WOOD FIBER ACOUSTICAL PANELS

WALLS & CEILINGS



CARDINAL
ACOUSTICS®

AN ACOUSTICAL WOOD FIBER COMPANY

WELCOME TO CARDINAL



Thank you for considering our company and our wood fiber products. We are a family-owned business driven by an unwavering commitment to quality, and, more importantly, taking care of your acoustical needs, starting with your design and not ending until you are completely satisfied with your acoustic solution.

We've worked hard to become the fastest-growing wood fiber manufacturer in the country. I hope that our growth reflects the dedication we bring to you and your project, because you've always been—and will always remain—our top priority.

Using sustainable practices to create exceptional products with superior performance is just the start. Our real passion lies in delivering outstanding service and offering the level of responsiveness you need and deserve. We understand that a successful project involves many moving parts, and we aim to make the entire process as seamless and enjoyable as possible.

At Cardinal Acoustics, we want every partner and trade involved to feel supported and empowered. It's our goal to ensure that working with us contributes to a smoother, more efficient experience, so you can focus on bringing your vision to life.

We appreciate the opportunity to earn your trust and look forward to helping you achieve remarkable results.

Warm regards,

William Khourie
Bill Khourie



SUPERIOR ACOUSTICS

FROM THE FASTEST-GROWING WOOD FIBER
MANUFACTURER IN THE COUNTRY

OUR COMMITMENT TO YOU

We know we aren't your only option for acoustical products, but we work hard to make sure we're the best option. From the first time we connect all the way until your space is looking and working even better than you imagined, we strive to exceed your expectations.



EXCEPTIONAL SERVICE

- Responses within 24 hours—always
- Quick production times
- Seamless process from design and quoting to manufacturing, ordering, and installation



MAXIMUM PERFORMANCE

- Absorbs up to 96% of sound
- NRC rating of 0.45 - 1.00
- 0.89 Light reflectance

UNLIMITED CREATIVITY

- Limitless colors, factory or field finish
- Extensive shape varieties
- Numerous custom options

QUALITY MATERIALS

- Wood fiber from poplar trees
- Asbestos- and fungus-free
- Paint up to 3 times

UNMATCHED QUALITY

- Abuse-resistant
- Limited lifetime warranty
- Class A flame and smoke spread rating





OUR COMMITMENT TO THE ENVIRONMENT



SOUND SOLUTIONS, SUSTAINABLE PRACTICES

Reducing noise in your space aligns with our commitment to reducing our footprint in the world. Using renewable wood resources and naturally occurring, formaldehyde-free materials that are safe for landfills, we create wood fiber acoustic panels in a safe, non-toxic environment.



EXCEPTIONAL NOISE CONTROL FOR A LIFETIME

We build our wood fiber panels as lifetime products, which means less impact on the environment in the life cycle of the building. Of course, all our acoustic panels come with a lifetime warranty, and replacing them is commonly unnecessary.



RENEWABLE RESOURCES

Our wood fiber panels are crafted from fast-growing poplar trees, an invasive species responsibly harvested after about 20-25 years. Alongside the poplar fibers, the panels incorporate an inorganic cement made from magnesium oxide and magnesium sulfate, silicon dioxide, (naturally occurring compound), and water.



SAFE, EASY DISPOSAL

When it's time, you can safely discard your Cardinal panels in the landfill or use them as composting material. Not only are our panels non-hazardous, they don't require special packaging that requires special disposal either.



Declare.



Learn more about our commitment to the environment at CardinalAcoustics.com/environment



WALL AND CEILING

DIRECT ATTACHED PANEL

COST-EFFECTIVE, CUSTOMIZABLE SOUND CONTROL

Reduce the sound inside your new construction or existing building with the attractive, textured look of our abuse-resistant Direct Attached Panels on your walls or ceiling. Easy to install and quick to enhance the look of your space, our standard wood fiber direct attached panel adds color and texture along with durability and sound absorption.

PERFECT FOR:

- Restaurants
- Offices
- Schools
- Churches
- Recreational facilities
- Businesses
- Public gathering spaces

CARDINAL ACOUSTICS DIRECT ATTACHED PANEL TECHNICAL DATA

EDGE DETAIL	MOUNT	NRC	THICKNESS	WIDTH	LENGTH	WEIGHT P/SF
Bevel/Bevel, Bevel/Square, Square/Square	A	0.45	5/8"	23-3/4" or 48"	48" up to 96"	1.55
		0.60	1"			2.20
		0.70	1 1/2"			3.42

Cardinal Acoustics wall and ceiling panels come in standard widths of 2' or 4', and standard lengths of 4' to 8'. They can be cut and shaped easily with standard woodworking tools. All Cardinal Acoustics ceiling panels meet the requirements of ASTM E1264 Type XIV pattern L Class A.



WALL AND CEILING

CARDINAL COMPLETE PANEL

THE HIGHEST POSSIBLE SOUND ABSORPTION

For spaces constructed with hard reflective surfaces, Cardinal Complete offers premium sound absorption. Our abuse-resistant wood fiber panels add absorption to the space, which reduces echo and reverberation. With pre-attached fiber furring strips, this panel doesn't require any additional mounting materials.

PERFECT FOR:

- Gymnasiums
- Classrooms
- Multipurpose rooms
- Indoor pools
- Restaurants

CARDINAL COMPLETE PANEL TECHNICAL DATA

EDGE DETAIL	MOUNT	NRC	THICKNESS	WIDTH	LENGTH	WEIGHT P/SF
Bevel/Bevel, Bevel/Square, Square/Square	A	0.85	5/8"	23 3/4" or 48"	48" up to 96"	2.37
		0.90	1"			2.52
		1.00	1"			3

Cardinal Complete panels are composed of either a 5/8" or 1" baseboard with 1" or 2" of wood fiber furring strips attached along the perimeter of the panel backside. We then secure either 1" or 2" of insulation to the framed-out cavity on the panel backside.

WALL AND CEILING

CREATIVE SHAPE PANEL



REDUCE NOISE WHILE YOU EXTEND YOUR STYLE

Explore creative ways to reduce the noise level in designed spaces, while complementing or enhancing their style. Choose from a wide range of shapes and sizes—including triangles, squares, rectangles, parallelograms, circles, and hexagons—and create artistic patterns and designs that delight visitors’ senses while controlling the noise level.

PERFECT FOR:

- Restaurants
- Hotels
- Museums
- Libraries
- Gymnasiums
- Open Offices
- Call Centers
- Corridors

FEATURES

- NRC values up to .95
- Abuse-resistant
- Available in standard and custom sizes
- Limited lifetime warranty against breakage
- Economical with a long life-span
- Asbestos- and fungus-free
- Can be field painted up to three times
- Factory finishes include Raw Unpainted (to be field painted), Painted Natural, Painted White, or Factory Custom Painted
- Can be produced in custom colors from any paint manufacturer’s palette

CARDINAL CREATIVE SHAPE PANEL TECHNICAL DATA

EDGE DETAIL	MOUNT	NRC	THICKNESS	WIDTH	LENGTH	WEIGHT P/SF
Beveled or square	A	0.45	5/8"	Variable	Variable	1.55
		0.60	1"			2.20
		0.70	1 ½"			3.42

WALL AND CEILING

LAY-IN CEILING PANEL



EFFORTLESS PERFORMANCE FOR BUSY SPACES

Easy to install and maintain, our Lay-In Ceiling Panel offers durability and noise reduction levels that mineral-fiber tiles can’t touch. A great choice for high-traffic, high-abuse areas, these panels provide long-lasting performance while they help reduce ambient noise, improve speech intelligibility, and overall comfort in a space.

PERFECT FOR:

- Offices
- Churches
- Schools
- Community and Rec Centers
- Corridors
- Classrooms
- Parking Garages

FEATURES

- NRC values up to .75
- Abuse-resistant
- Limited lifetime warranty against breakage
- Asbestos- and fungus-free
- Can be field painted up to three times
- Factory finishes include Raw Unpainted (to be field painted), Painted Natural, Painted White, or Factory Custom Painted
- Can be produced in custom colors from any paint manufacturer’s palette

CARDINAL LAY-IN CEILING PANEL TECHNICAL DATA

EDGE DETAIL	MOUNT	NRC	THICKNESS	WIDTH	LENGTH	WEIGHT P/SF
Square	E-400	0.60	5/8"	23 ¾"	23 ¾" or - 47 ¾"	1.55
		0.70	1"			2.20
		0.75	1 ½"			3.42

Our Lay-In panels sit cleanly into a 15/16th Intermediate Duty Grid.

CEILING

HANGING BAFFLES

A VERTICAL CEILING PANEL FOR DECORATIVE PERFORMANCE

Break up large, open spaces while you bring down the sound with our Hanging Baffle. Ideal for your busiest spots, this vertically hung, decorative ceiling panel is an attractive and efficient option that is exposed on both the front and backside. Choose one of two thicknesses, and any color — including custom shades from any paint manufacturer.

PERFECT FOR:

- Restaurants
- Offices
- Churches
- Museums and Art Galleries
- Community and Rec Centers
- Food Halls

FEATURES

- Hangs vertically in provided galvanized steel channels
- Available in two thicknesses
- Abuse-resistant
- Limited lifetime warranty against breakage
- Asbestos- and fungus-free
- Can be field painted up to three times
- Factory finishes include Raw Unpainted (to be field painted), Painted Natural, Painted White, or Factory Custom Painted
- Can be produced in custom colors from any paint manufacturer’s palette

CARDINAL BAFFLE TECHNICAL DATA

EDGE DETAIL	SABINS/SF	THICKNESS	WIDTH	LENGTH	WEIGHT P/SF
Bevel/Bevel,	0.70	1”	11 ¾” or 23 ¾”	48” up to 96”	2.20
Bevel/Square,	0.75	1½”			3.42
Square/Square					

CEILING

CREATIVE CLOUDS

FREE-FLOATING SOUND ABSORBERS

Choose standard or custom shapes for these independently hanging ceiling panels. Great for large, noisy environments, Creative Clouds are individual ceiling panels with excellent sound absorption. These 1 ½” thick wood fiber panels come in a range of shapes, 2- and 4-foot widths, and up to 8 feet in length.

PERFECT FOR:

- Call Centers
- Open Offices
- Restaurants
- Schools
- Churches
- University Buildings

FEATURES

- NRC values up to .75
- Abuse-resistant
- Available in standard and custom shapes
- Limited lifetime warranty against breakage
- Economical with a long life-span
- Asbestos- and fungus-free
- Can be field painted up to three times
- Factory finishes include Raw Unpainted (to be field painted), Painted Natural, Painted White, or Factory Custom Painted
- Can be produced in custom colors from any paint manufacturer’s palette

CARDINAL CLOUD TECHNICAL DATA

EDGE DETAIL	NRC	THICKNESS	WIDTH	LENGTH	WEIGHT P/SF
Bevel/Bevel,	0.75	1 ½”	23 ¾” or 48”	48” up to 96”	3.42
Bevel/Square,					
Square/Square					

The Cloud panel is made with T profiles 5” in from the end of the panel, into which the installer slides an Intermediate Main Tee, utilizing either hanging wire or aircraft cable to suspend the Cloud.



WALL AND CEILING

CARDINAL CUT PANEL

SOUND ABSORPTION WITH A SLEEK AESTHETIC

Distinguished by their straight-cut patterns, Cardinal Cut Panels add texture and energy to any space. Whether you want to expand on your interior design scheme or just add extra visual interest, you can enjoy unmatched sound absorption along with horizontal, vertical, grid, diagonal, diamond, or custom designs and patterns. Factory-fabricated grooves offer consistent flow from one panel to the next.

PERFECT FOR:

- Restaurants
- Libraries
- Hotels
- Museums
- Rec Centers
- Open Offices
- Call Centers

FEATURES

- NRC values up to .95
- Abuse-resistant
- 6 Decorative face options
- Custom sizes available
- Limited lifetime warranty against breakage
- Economical with a long life-span
- Asbestos- and fungus-free
- Can be field painted up to three times
- Factory finishes include Raw Unpainted (to be field painted), Painted Natural, Painted White, or Factory Custom Painted
- Can be produced in custom colors from any paint manufacturer’s palette

CARDINAL CUT PANEL TECHNICAL DATA

EDGE DETAIL	NRC	THICKNESS	WIDTH	LENGTH	WEIGHT P/SF
Bevel/Bevel, Bevel/Square, Square/Square	.60 – .95	1”	23 ¾”	23 ¾”	2.20
	.70 – .80	1½”	23 ¾”	47 ½”	3.42
			23 ¾”	95”	
			47 ½”	47 ½”	
			47 ½”	95”	



CEILING

MAX LAY IN PANEL

MAXIMUM PERFORMANCE AND CREATIVITY FOR A DROP CEILING

Engineered to deliver exceptional sound control and refined aesthetics, Our Max Lay-In Panel offers increased absorption ratings and uncompromised durability and finish. Lightweight and abuse-resistant, with insulation included, you can maximize creativity and minimize noise in your suspended ceiling. Designed for seamless integration into standard grid systems.

PERFECT FOR:

- Gymnasiums
- Libraries
- Rec Centers
- Municipal Buildings
- Open Offices
- Conference Rooms

FEATURES

- Compatible with 15/16” Intermediate Acoustical Suspension System
- Abuse-resistant
- Easy to install
- Insulation included
- Limited lifetime warranty against breakage
- Economical with a long life-span
- Asbestos- and fungus-free
- Can be field painted up to three times
- Factory finishes include Raw Unpainted (to be field painted), Painted Natural, Painted White, or Factory Custom Painted
- Can be produced in custom colors from any paint manufacturer’s palette

MAX LAY IN PANEL TECHNICAL DATA

EDGE DETAIL	NRC	MOUNTING	THICKNESS*	WIDTH	LENGTH	WEIGHT P/SF
Square	.80	E-400	5/8”	23 ¾”	23 ¾” or 47 ¾”	1.55
	.95	E-400	1”			2.20



WALL

CARDINAL CAPTURE

UNLIMITED IDEAS WITH CUSTOM-PRINTED PANELS

Cardinal Capture custom-printed panels blend form, function, and creativity, providing you with high-quality sound absorption and personalization that makes your space stand apart. Choose an image from our library or use one of yours — like your logo, mascot, or a photo. Maximize your creativity and enjoy sound absorption and impact resistance with a custom wood fiber panel that transforms — and quiets — your space.

PERFECT FOR:

- Schools
- Restaurants
- Religious Facilities
- Museums
- Halls
- Open Offices

CARDINAL CAPTURE TECHNICAL DATA

EDGE DETAIL	NRC	THICKNESS*	AVAILABLE SIZES	WEIGHT P/SF
Beveled (all edges)	.45 - .80	5/8"	2'x 4' or 4'x 8'	1.55
	.60 - .95	1"		2.22

Images should be a minimum of 75 dpi with a maximum of 150 dpi at final size. Higher resolution files have best results. Preferred file types: tiff or jpg from Photoshop. Native .ai file for vector art.



WALL

CARDINAL COMFORT

HIGH-PERFORMANCE, HIGH AESTHETIC

Our fabric-covered acoustic wall panels deliver both strength and sophistication, combining proven durability with effective sound control and a softer visual appearance. Ideal for busy spaces where style can't be compromised, this cost-effective, long-lasting solution lends a warm, inviting look to our impact-resistant panels. Choose from the extensive Guilford 701 fabric collection or use the fabric of your choice.

PERFECT FOR:

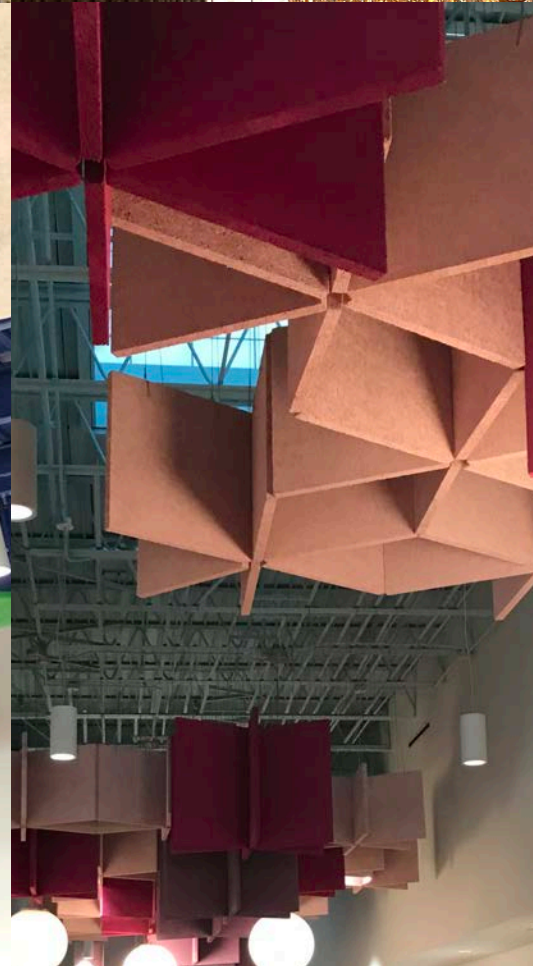
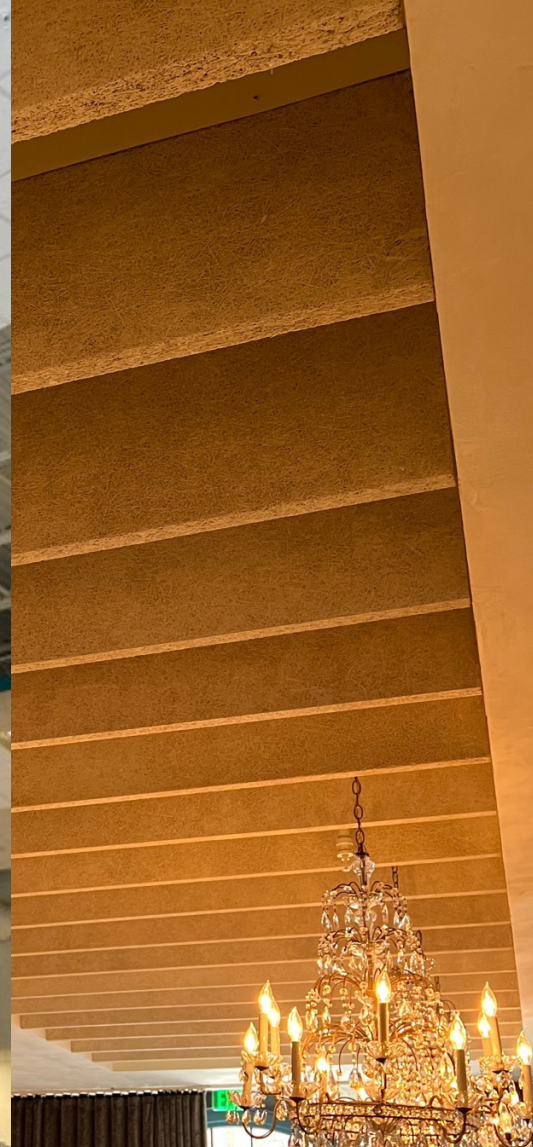
- Hotels
- Offices
- Restaurants
- Schools
- Municipal Buildings

FEATURES

- Highly customizable
- Abuse-resistant
- Easy to install
- Tackable
- Custom sizes available
- Limited lifetime warranty against breakage
- Economical with a long life-span
- Asbestos- and fungus-free

CARDINALCOMFORT PANEL TECHNICAL DATA

EDGE DETAIL	NRC	THICKNESS	WIDTH	LENGTH	WEIGHT P/SF
Bevel/Bevel, Bevel/Square, Square/Square	.45 - .80	5/8"	23-3/4" or 48"	48" up to 96"	1.55
	.60 - .95	1"			2.20





**FOR MORE INFORMATION, VISIT CARDINALACOUSTICS.COM
OR CALL US AT 614.721.3001**

EMAIL: info@cardinalacoustics.com



CARDINAL
ACOUSTICS®
AN ACOUSTICAL WOOD FIBER COMPANY

OFFICE HEADQUARTERS
2941 Donnylane Blvd.
Columbus, OH 43235

MANUFACTURING & FABRICATION PLANT
2000 S. Yellow Springs St.
Springfield, OH 45506