

XPRESSIVE ACOUSTICAL

WOOD WOOL FIBER PANELS



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Xpressive™ Acoustical wood wool fiber panels by Diamond T Manufacturing, Inc. offer a refined combination of natural texture, sound control, and durable performance for ceiling and wall applications. Manufactured from wood fibers bonded with mineral binders, these panels are designed to absorb sound, reduce echo, and improve speech clarity in occupied spaces. Their distinctive visual character adds warmth and architectural interest, while the robust, fire-resistant composition supports long-term use in commercial, educational, and public interiors. Available in a range of custom colors selected to complement each project's design vision, Diamond T's wood wool fiber panels provide a versatile solution that balances acoustical performance, sustainability, and customized aesthetics

KEY FEATURES & BENEFITS



- **High Acoustical Performance**
Reduces reverberation and improves speech intelligibility in open and high-volume spaces.
- **Architectural Expression**
Available in geometric and custom shapes for expressive ceiling designs.
- **Natural, Sustainable Materials** – Made from wood fibers and mineral binders, supporting environmentally responsible design.
- **Fire-Resistant Construction** – Non-combustible properties contribute to safer interior environments.
- **Moisture & Mold Resistant** – Performs well in humid environments without sagging or degradation.
- **Distinctive Natural Aesthetic** – Textured appearance adds warmth and visual interest to ceilings and walls.

PERFORMANCE

Xpressive™ Wood Wool Wall and Ceiling Panels Wood wool acoustical panels deliver strong acoustic performance by combining a porous, fibrous surface with a dense cementitious core, allowing them to absorb sound effectively while also providing excellent durability. Their natural texture helps diffuse sound, reducing reverberation in large or noisy spaces, and their robust composition makes them resistant to impact, moisture, and everyday wear. This balance of acoustics, strength, and sustainability makes wood wool panels a reliable choice for schools, gyms, offices, and public buildings.

- **High sound absorption** — Porous wood fibers reduce echo and improve speech clarity.
- **Durable and impact-resistant** — Cement-bonded construction withstands heavy use.
- **Moisture- and mold-resistant** — Stable in humid or variable environments.
- **Sustainable material** — Made from natural wood fibers with low environmental impact.

APPLICATIONS

- **Open-plan Offices**
- **Conference and Collaboration Spaces**
- **Lobbies and Reception Areas**
- **Classrooms and Lecture Halls**
- **Libraries / Gymnasium**
- **Restaurants and Hospitality Spaces**
- **Transit and public interiors**

MATERIAL COMPOSITION

• **Material:** Wood wool panels are made from long wood fibers—typically spruce or pine—combined with Portland cement as the binding matrix. The fibers are mineralized and pressed with the cement to form a strong, porous, acoustically absorptive panel.

- **Recycled Content:** Up to 60% post-consumer recycled PET
- **Thickness Options:** Typically 9 mm – 12 mm – 25 mm (custom thickness available)
- **VOC Emissions:** Low-VOC, indoor air quality compliant
- **Fire Performance:** Class A (ASTM E84), when applicable

SUSTAINABILITY

Xpressive™ Wood Wool Ceiling/ Wall Panels Wood wool panels are a sustainable choice because they're made from renewable wood fibers, bonded with natural cement, and manufactured with low embodied energy compared to many other acoustic materials. They offer long service life, are fully recyclable, and contribute to healthier indoor environments thanks to their natural, low-VOC composition.

- Made from renewable wood fibers that come from responsibly managed sources.
- Low-VOC and fully recyclable, supporting healthier indoor air and reduced waste.
- Low embodied energy manufacturing compared to synthetic acoustic materials.

WHY XPRESSIVE™

Xpressive is where acoustics meet art—giving designers the ability to control sound while creating walls that inspire. Whether subtle or bold, linear or geometric, Xpressive Wood Wool Panels



DIAMOND T MANUFACTURING, INC.

YOUR PARTNER IN ARCHITECTURAL METAL & ACOUSTICAL SOLUTIONS

Since 2013, Diamond T Manufacturing, Inc. (DTMI) has been a trusted leader in architectural metals fabrication and acoustical design solutions. We specialize in creating custom products that elevate spaces with unmatched design, aesthetics, acoustical performance, and decorative appeal.

Our Expertise Includes:

- Architectural Metal Products
- Acoustical Metal Ceilings
- Metal Wall Panels
- Column Covers
- Acoustical Solutions with PET Felt & Fabric
- Felt Ceiling Baffles
- Wall Panels / V-Groove Carving Panels
- Ceiling Pods / Acoustical Shapes
- Fabric-Wrapped Wall Panels
- Sound Absorbing Products

At DTMI, we combine precision craftsmanship with innovative design to deliver tailored solutions for architects, designers, and builders. Whether you need standard products or fully customized architectural elements, we have the experience and capability to bring your vision to life.

Why Choose Diamond T?

- ✓ Over a decade of proven expertise
- ✓ Custom fabrication for unique projects
- ✓ Commitment to quality and performance
- ✓ Solutions that blend beauty with functionality

TRANSFORM YOUR SPACE WITH DTMI'S ARCHITECTURAL AND ACOUSTICAL PRODUCTS. LET'S CREATE SOMETHING EXTRAORDINARY TOGETHER.



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