

LAMINATED PVC FOAM BOARD CATALOG



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PRODUCT INTRODUCTION

Boardway's Laminated PVC Foam Board combines a PVC or WPC foam board base with a variety of surface materials, including PVC film, PETG film, HPL, aluminum foil, and acrylic sheet. This lamination process results in a durable, versatile, and aesthetically pleasing board suitable for various applications. Ideal for both interior and exterior uses, Laminated PVC Foam Board is perfect for wall panels, furniture, signage, and building materials, offering both functional and decorative solutions.



ADVANTAGES

Durability



Boardway's Laminated PVC Foam Board is resistant to moisture, UV rays, and impact, ensuring long-lasting performance and maintaining structural integrity and appearance over time.

Versatility



With a wide range of surface materials, from glossy finishes to textured surfaces, our boards suit various applications, including interior decoration, outdoor signage, and construction projects.

Aesthetics



Offering customizable colors and finishes, our boards enable a wide array of design possibilities, from vibrant colors to wood grain textures and metallic finishes.

Ease of Use



Lightweight and easy to handle, our boards can be easily cut, shaped, and fitted, reducing installation time and labor costs, making them ideal for both DIY projects and professional installations.



BASE MATERIAL OPTIONS

PVC Foam Board



Available Colors:



- **Characteristics:** WPC (Wood Plastic Composite) Foam Board combines the properties of wood and plastic, offering enhanced strength and stability. With the addition of wood fibers, it is denser than traditional PVC foam board and has a wood-like appearance.
- **Benefits:** WPC Foam Board is highly resistant to water, rot, and insect damage, making it ideal for both indoor and outdoor applications.

- **Characteristics:** PVC Foam Board is lightweight yet strong, making it easy to handle and install. It has a smooth surface that is ideal for lamination and provides excellent printability.
- **Benefits:** This board is resistant to moisture, chemicals, and UV radiation, ensuring long-term durability. Its lightweight nature reduces transportation and installation costs, while its smooth surface allows for high-quality finishes.

WPC Foam Board



Available Colors:



SURFACE MATERIAL OPTIONS



- **PVC Film**

Offers a variety of colors and textures, providing excellent decorative flexibility.



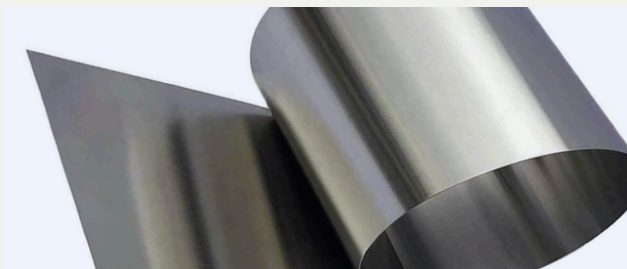
- **PETG Film**

Known for clarity and toughness, adds a glossy and durable finish.



- **HPL (High-Pressure Laminate)**

Provides superior resistance to wear, impact, and moisture, ideal for high-traffic areas.



- **Aluminum Foil**

Adds a metallic sheen and enhances resistance to weathering and UV rays, and best of all, fire resistance.



- **Acrylic Sheet**

High gloss and clarity, adds a premium look and feel to the board.



PRODUCT TYPES:

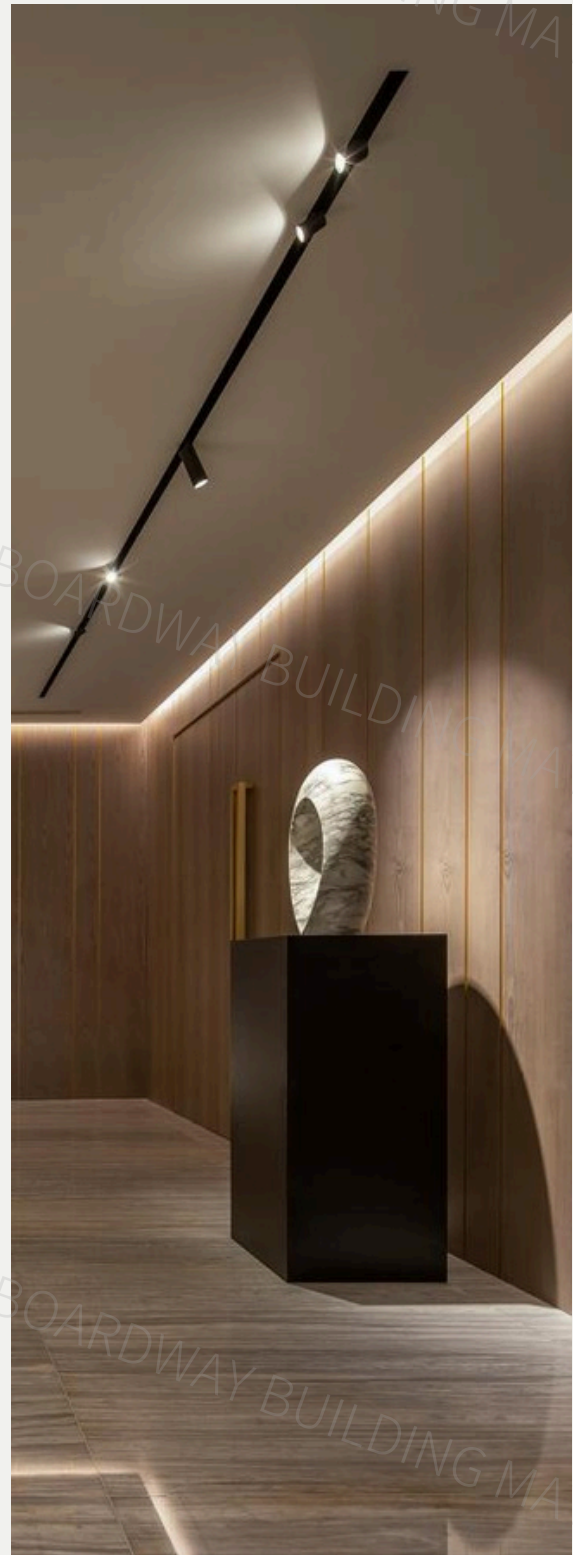
INDOOR VS. OUTDOOR

Indoor Grade

- Applications: Suitable for interior wall panels, furniture, partitions, and decorative surfaces.
- Benefits: Cost-effective, provides excellent aesthetic appeal with a variety of surface finishes, and is easy to install and maintain.

Outdoor Grade

- Applications: Ideal for exterior cladding, signage, and outdoor furniture.
- Benefits: Enhanced durability and resistance to weathering, UV rays, and moisture. Offers a longer lifespan in outdoor conditions and maintains its appearance over time.



CASE STUDY: OUTDOOR TESTING FOR INDOOR GRADE

Description of the Test

Conducted in Wisconsin, USA, where the Indoor Grade Laminated PVC Foam Board with PVC film surface was exposed to outdoor conditions for 8 and 18 months. The test samples faced rain, UV rays, snow, and other environmental factors.



Left: Sealed Sample Kept Indoors for 8 Months
Right: Sample After 8 Months Outdoor Exposure

Results and Analysis

The base material showed no signs of aging or disintegration, and the adhesive layers remained intact. However, the PVC film surface experienced wear, with the wood grain film easily peeling off under light scratching.



★ Recommendations

For outdoor use, we recommend the Outdoor Grade Laminated PVC Foam Board to ensure durability and longevity. If the board will be used indoors or occasionally exposed to outdoor conditions, the Indoor Grade can be a more cost-effective choice. It is crucial to consider the specific usage environment, duration, and conditions to select the appropriate grade for optimal performance and lifespan.

MANUFACTURING PROCESS

1. Base Material Production

Our advanced facilities produce high-quality PVC and WPC foam boards through precise mixing, extrusion, and cooling, ensuring consistent thickness, density and strength.



2. Automated Loading

Our production line features automated loading of base materials, ensuring high efficiency and consistent quality.

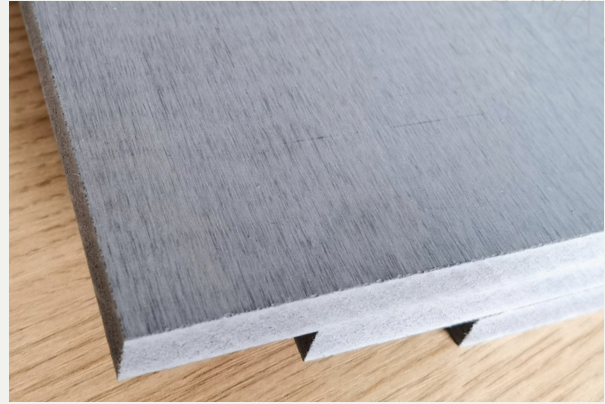


3. Sanding

The base materials are meticulously sanded to achieve a high-friction, even surface for effective lamination, ensuring a strong adhesive bond.



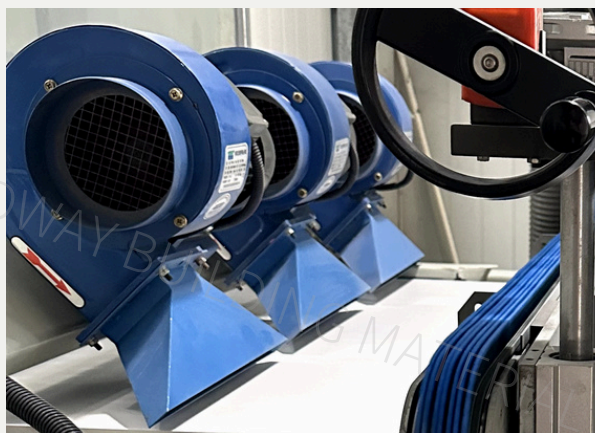
Sandpaper running in sanding equipment



PVC foam board after sanding

4. Dust Removal

Comprehensive dust removal is performed on the base materials using a four-stage process. This ensures the boards are thoroughly clean before adhesive application, preventing impurities between the base and surface materials.



The third dust absorption



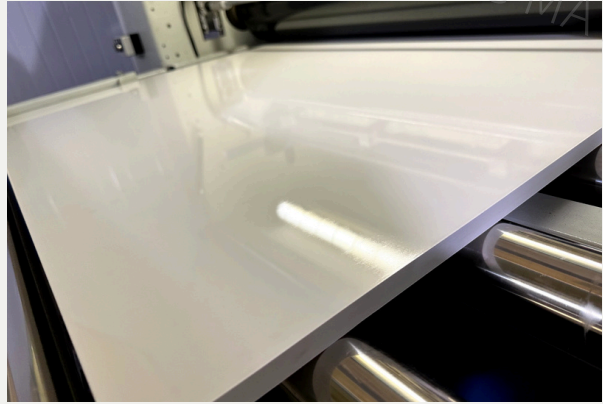
The second dust absorption

5. PUR Adhesive

PUR adhesive is evenly applied to the board surface, forming a uniform adhesive layer. This ensures high bonding quality, enhancing the durability and longevity of the final product.



PUR glue roller



Uniform adhesive layer

6. Lamination

Advanced technology seamlessly bonds surface films to base boards, ensuring a strong adhesive bond and a flawless finish for enhanced durability and visual appeal.



7. Trimming

Skilled technicians trim the laminated boards, removing excess surface material to achieve a clean and precise edge.



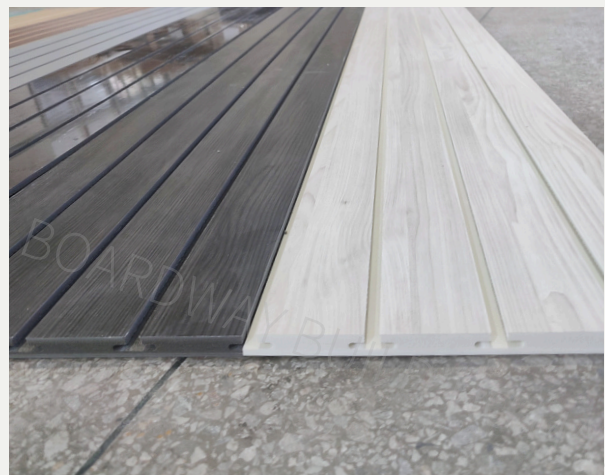
8. Flipping

An automated process flips the finished boards, stacking them face-to-face to prevent surface scratches during transportation, ensuring they arrive in pristine condition.



★ Customization

We offer color matching between base material and surface material for a cohesive and aesthetically pleasing result, tailored to specific design and functional requirements.



Judge whether the lamination is qualified?

- Pinch a corner of the surface material and tear it up



A small piece breaks off

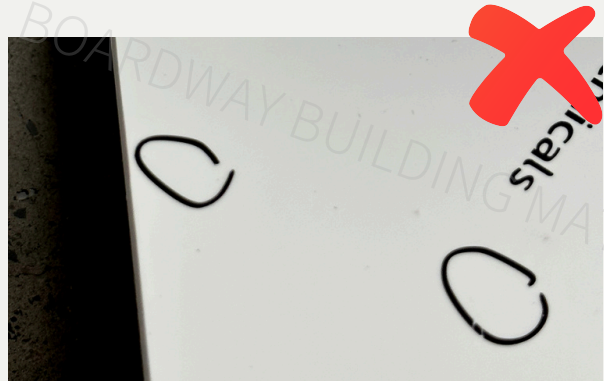


A large piece is peeled off

- Inspect the surface to confirm whether there are any impurities

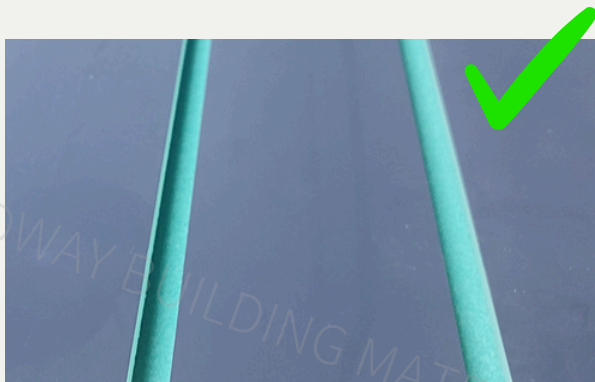


Clean and free of impurities



Tiny impurities

- Inspect the surface to confirm whether there are any bubbles

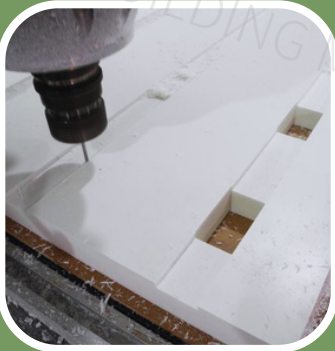


Free of bubbles



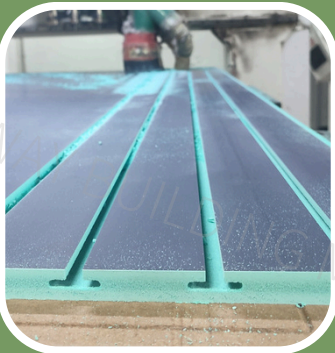
Some small bubbles

CUSTOM PROCESSING SERVICES



Cutting and Shaping

We offer precision cutting and shaping services to tailor Laminated PVC Foam Boards to your specific dimensions and geometries. Whether you require standard sizes or unique shapes, our advanced equipment ensures accuracy and consistency.



Grooving

Our grooving service allows for the incorporation of slots or channels into the boards, enhancing their functionality for specific applications.



Edging

Enhance the durability and aesthetics of your boards with our PVC edge banding service. We offer a range of colors and patterns to match your Laminated PVC Foam Boards, providing a seamless and uniform finish.

AND MORE

PACKAGING AND SHIPPING

Packaging Solutions

- **Product Safety:** We employ robust packaging methods to ensure the safe transit and storage of our Laminated PVC Foam Boards. Each board is carefully packaged to prevent damage during transportation and handling.



- **Customized Packaging:** We offer customized packaging solutions tailored to your needs, including retail-ready packaging for direct sale and distribution. This ensures convenience for our customers upon receipt, facilitating easy resale or distribution of our products.

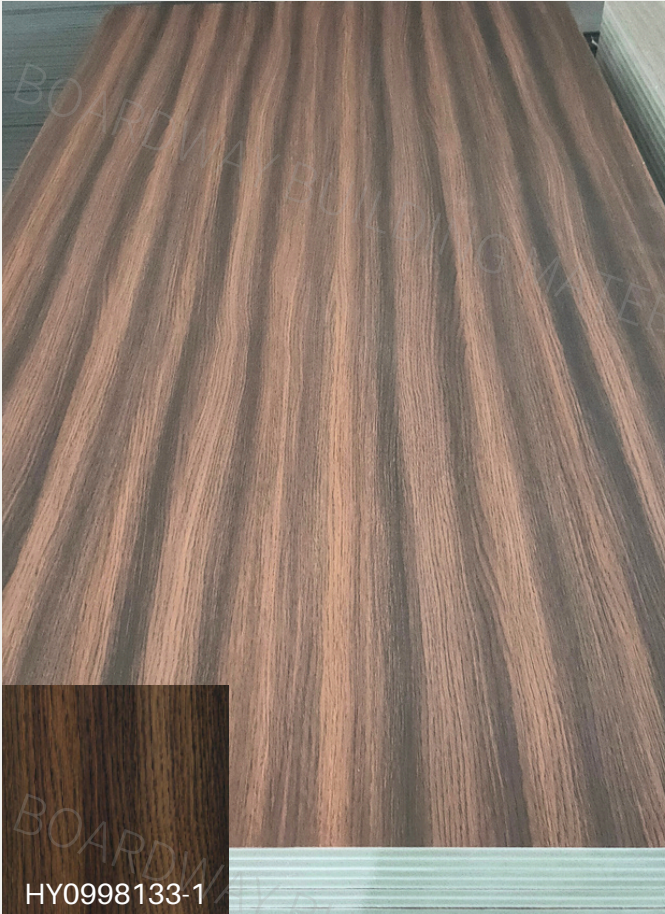
Shipping Solutions

- We offer flexible logistics solutions to meet your delivery requirements. Whether you need local distribution or international shipping, our logistics team ensures timely and efficient delivery of your orders.



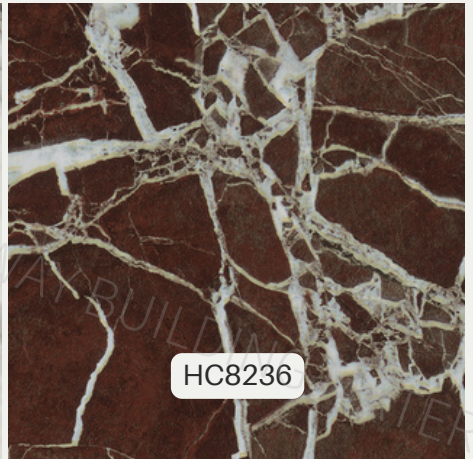
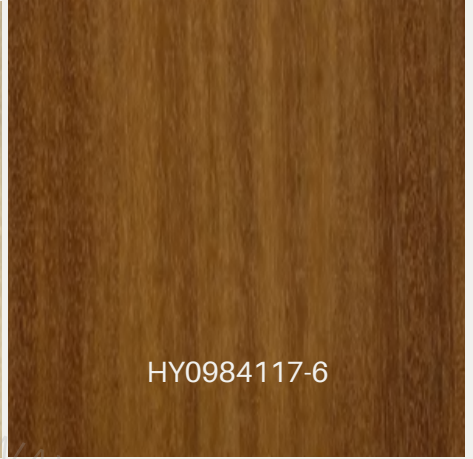
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FOAM BOARD
GALLERY**

CUSTOMIZED FOR PROJECTS









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