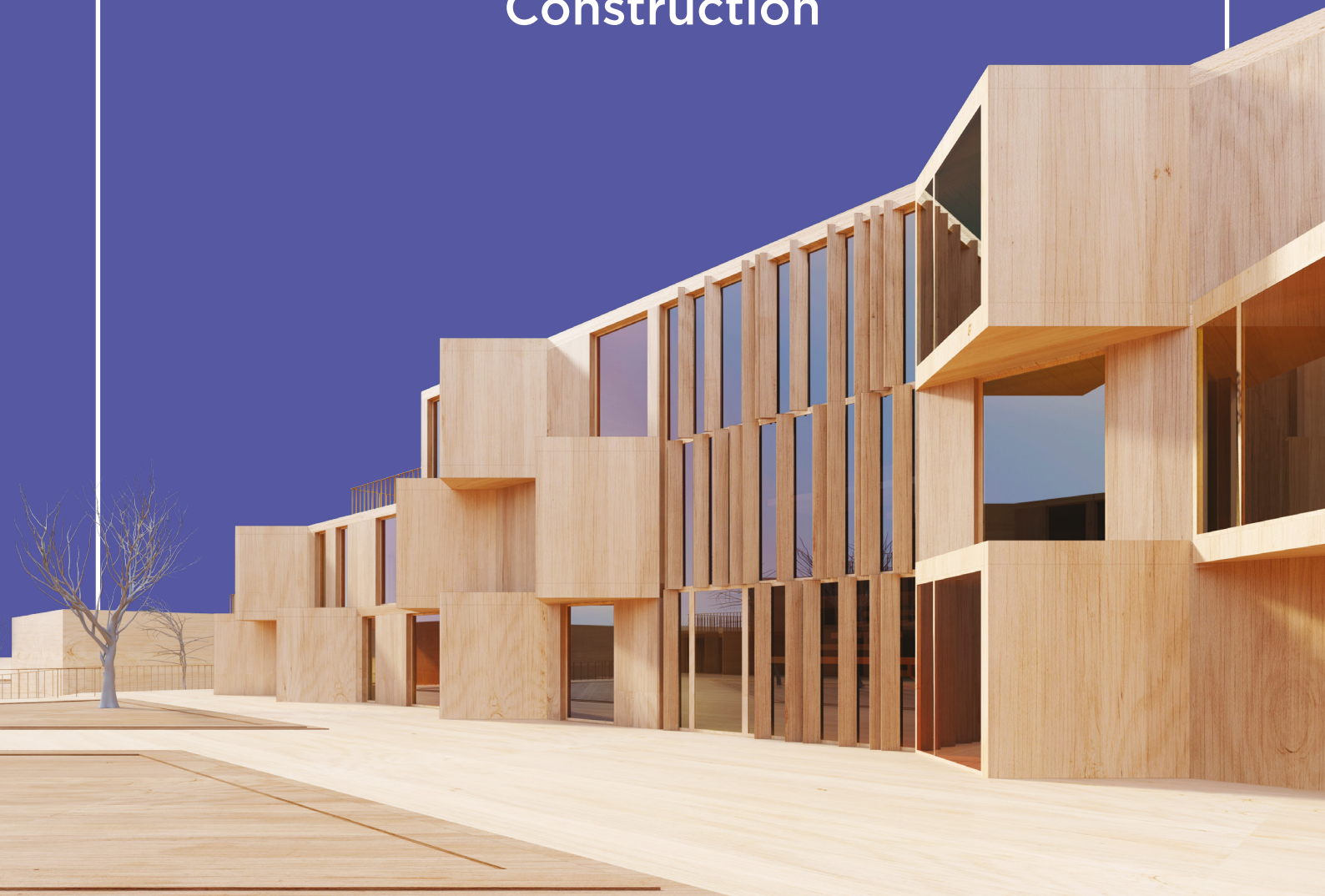




Materials and Solutions

Commercial and Residential
Construction



www.advancedmaterialsus.com



At the APM, materials meet designers, engineers, fabricators, and installers. Together, we transform materials into ultra-performing structural panels, parts, and components. At APM, we select the finest materials and supporting materials to produce products and solutions for residential and commercial building structural, thermal, and acoustic insulation projects. As experienced professionals in the field, we understand each project is unique, and because of that, we select materials and components based on project specifications and technical requirements. No matter the project's complexity, we have the necessary materials and expertise to complete a project efficiently.



At APM, we offer our clients a complete turnkey solution from materials selection to design, fabrication, testing, certification, and installation.

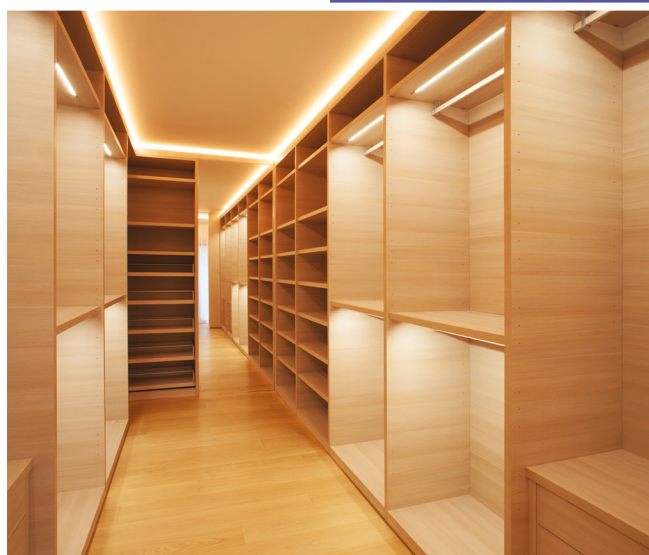
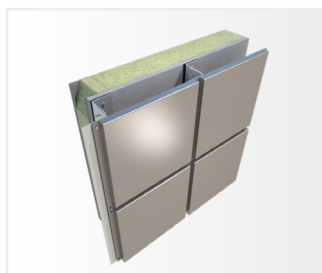
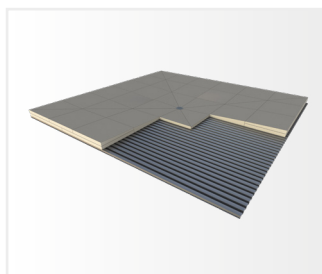
We offer a range of products and services for residential, general, and commercial construction industries. The materials and components used in various development projects are sustainable, lightweight, fire retardant, 100% recyclable, EPD certified, and meet necessary regulatory requirements. Most structural core materials used in our products and solutions are manufactured

in-house, and supporting materials are sourced domestically, depending on the project specification and scope of work. Because of that, we can meet the highest quality and safety standards for any development project. All our raw materials meet industry standards and requirements.

PRODUCTS & SOLUTIONS:

Thermal insulation project

- ✓ Foil faced PU/PIR (Polyiso) rigid foam insulation materials, panels, and components—project-specific custom cutting and fabrication.
- ✓ Foil faced and fsk laminated mineral wool blankets, batts and boards. Fully customized and project specific cutting and fabrication.
- ✓ Foil faced and fsk laminated fiberglass blankets, batts and boards. Fully customized and project specific cutting and fabrication.
- ✓ Foil faced and fsk laminated rigid XPS/EPS foam boards and panels. Fully customized and project specific cutting and fabrication.
- ✓ Unfaced rigid PUR (Polyiso), XPS, EPS foam boards and panels. Project specific and fully customized.
- ✓ Unfaced mineral wool, fiberglass batts, blankets and boards (flexible and semi flexible).
- ✓ Foil faced and unfaced Melamine foam boards and panels. Fully customized and project specific.
- ✓ Project specific duct and other insulation materials and solutions. Contact us for your project and insulation materials need.



Material Specification:

- ✓ Available thermal insulation value (R-value): 4-60.
- ✓ Available density: 1- 60 lbs./cf. (pcf).
- ✓ Customized thickness: 3/4 - 40".
- ✓ Length and width: completely customized.
- ✓ Material finish: unfaced, foil faced, fsk facing, custom laminated, customized panels.
- ✓ OEM Fabrication: Drawing and design specific OEM component fabrication and production.
- ✓ Mold and anti-bacterial resistance.
- ✓ Fire performance: Class A fire rated and non-combustible.
- ✓ Chemical and weather resistant.
- ✓ Moisture and humidity resistant.
- ✓ Material appearance: Rigid, semi-flexible, and flexible.
- ✓ Compressive strength: 5- 50 psi.
- ✓ Recycled content: up to 70% recycled content depending on the needs.
- ✓ Ready to install products and solution.
- ✓ Fully custom produced composite and laminated insulation panels.
- ✓ 100% Made in USA.



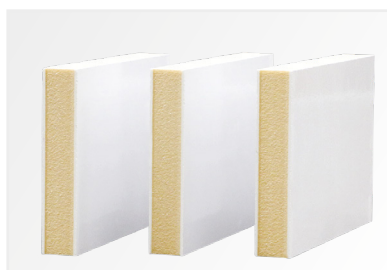
Thermal insulation
PU/PIR foam sheet



Thermal insulation panel
Aluminum laminated PIR



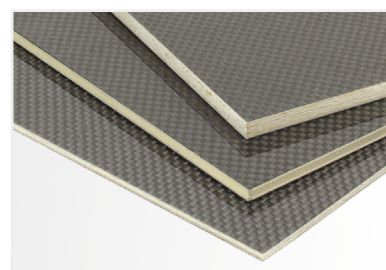
Thermal insulation panel
Polyester film laminated PIR



Thermal insulation panel
PET laminated PU/PIR



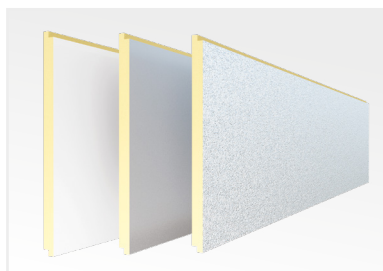
Thermal insulation material
Fiberglass Batt



Thermal insulation panel
Carbon fiber-foam composite



Thermal insulation panel
HPL Phenolic-foam
composite



Thermal insulation panel
Thermoplastic laminated PIR



Thermal insulation panel
HPL laminated PU



Thermal insulation material
Fiberglass blanket



Thermal insulation panel
Plywood-foam composite



Thermal insulation panel
PIR-Plywood-HPL composite



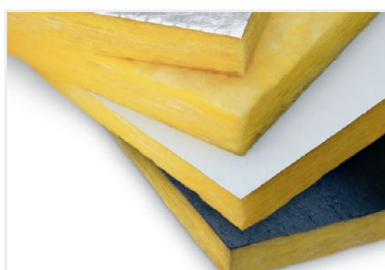
Thermal Insulation
Closed cell XPS



Thermal Insulation
Closed cell EPS



Thermal Insulation
Foil-faced fiberglass



Thermal Insulation
Foil-faced mineral wool



Thermal Insulationl
Pipe insulation wrap



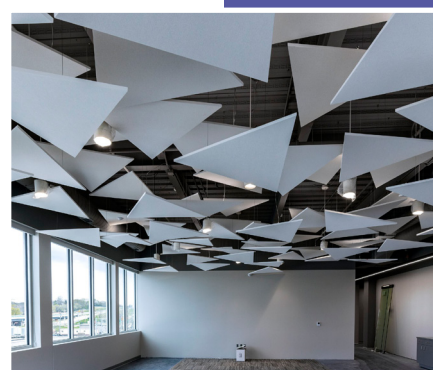
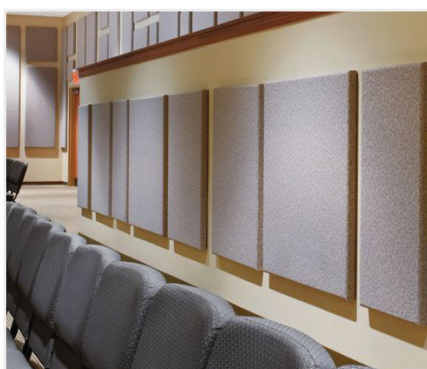
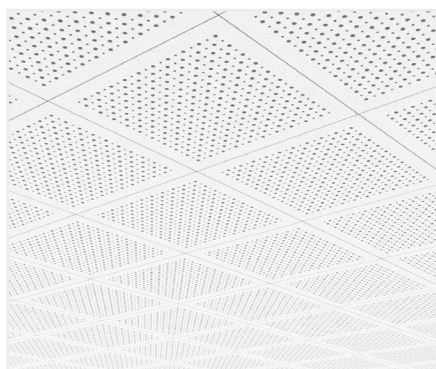
Thermal Insulation
Faced mineral wool

PRODUCTS & SOLUTIONS:

Sound and acoustic insulation project

- ✓ Project-specific custom fabrication of Wood fiber, Balsa, and Cellulose foam-based noise, acoustic insulation panels, and large interior structures.
- ✓ Fabrication and mass production of Polyester film laminated fiberglass blankets, boards and composite sheets and structures.
- ✓ Custom fabrication and manufacturing of Polyester laminated mineral wool blankets, boards and composite structures.
- ✓ Project-specific custom fabrication of Polyester film laminated PET and Cellulose core-based noise insulation panels and components.
- ✓ Decorative acoustic architectural panel, drawings and paintings.
- ✓ Custom fabrication and mass production of Cotton fabric laminated Wood fiber, Cellulose, and PET foam core-based sound insulation-absorption sandwich composite panels, parts, and components.
- ✓ Acoustic ceiling panels, acoustic architectural ceiling panels.
- ✓ Air filtration system for acoustic ceiling.



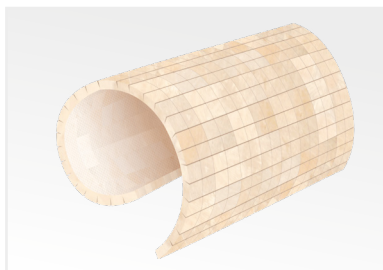


Material Specification:

- ✓ Ultimate sound blocking and maximum acoustic insulation.
- ✓ Close to ideal sound and noise absorption.
- ✓ Ultimate sound and noise reduction.
- ✓ Sound Absorption (NRC): Up to 0.95.
- ✓ Sound Attenuation: Up to 40 CAC.
- ✓ Custom manufacturing and ready-to-install solutions.
- ✓ 100% recyclable, made from recycled materials.
- ✓ Super lightweight and excellent strength-to-weight ratio.
- ✓ No water and moisture absorption.
- ✓ Standard fire-retardancy. Class A fire performance.
- ✓ Fully weather-resistant, added antimicrobial properties.
- ✓ Mold and sag-resistant.
- ✓ EPD, LCA, IMO/MED, and DNV-GL certified.
- ✓ Meet US, Canada, and EU regulatory standards.
- ✓ Durability: Impact Resistance, Scratch Resistance.
- ✓ Fully customized products and solutions.
- ✓ Fully customized light reflection performance.
- ✓ Made in USA.



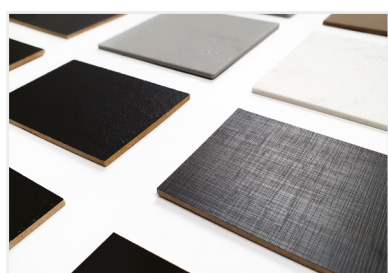
Noise blocking
Wood fiber sheet



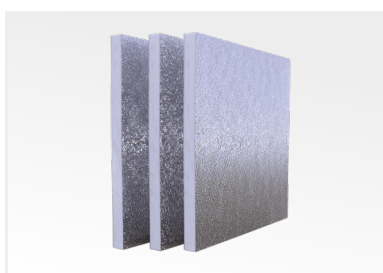
Acoustic insulation
Balsa wood core



Sound blocking
PET foam core



Sound insulation/blocking panel
Polyester film laminated
wood fiber



Acoustic insulation/blocking
Polyester film laminated
PET foam



Sound blocking
PET felt



Noise blocking/insulation
Polyester Felt



Sound insulation
PLA laminated wood fiber



Acoustic blocking
Cotton laminated wood fiber

PRODUCTS & SOLUTIONS:

Interior and exterior structural projects



- ✓ Project-specific custom cutting and fabrication of thermal plastic composite panels.
- ✓ Drawing and design specific fabrication and mass production of FRP panels.
Project-specific custom cutting, fabrication, and mass manufacturing of high-pressure laminates (HPL).
- ✓ Design and drawing specific custom cutting and fabrication of Phenolic panels.
- ✓ Drawing specific custom cutting and fabrication of metal composite panels.
- ✓ Drawing specific custom cutting and fabrication of aluminum composite panels.
- ✓ Project specific custom cutting and fabrication decorative architectural thermal insulation and acoustic composite panels and components.
- ✓ Interior and exterior decoration materials fabrication and supply.



Material Specification:

- ✓ Recyclable and sustainable.
- ✓ Lightweight, excellent strength-to-weight ratio.
- ✓ Minimum carbon footprint, sustainable materials processing.
- ✓ Remarkable tensile and compression strength.
- ✓ Exceptional mechanical and physical strength.
- ✓ No water and moisture absorption.
- ✓ Excellent thermal and heat stability.
- ✓ Extreme weather resistant.
- ✓ Corrosion resistance.
- ✓ Standard fire retardancy.
- ✓ Excellent service life.
- ✓ EPD, LCA, and DNV-GL certified.
- ✓ Meet US, Canada, and EU regulatory requirements and standards.
- ✓ Easy installation and minimum maintenance.
- ✓ Excellent cold and hot weather resistance.
- ✓ Manufactured in USA.



Structural material
HPL Laminated Panel



Structural core
HPL Laminated Panel



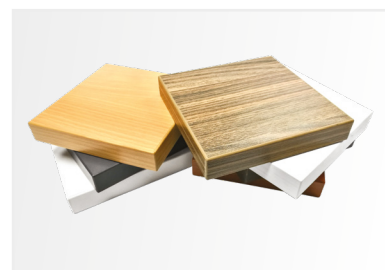
Structural material
Aluminum pane



Structural material
Phenolic panel



Structural material
HPL laminated panel



Structural panel
Decorative Panel



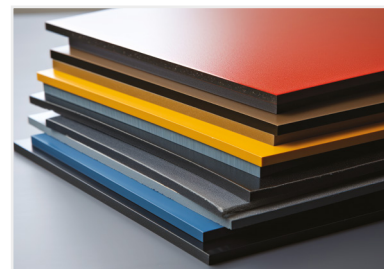
Structural material

Phenolic laminated
wood panel



Structural materia

Decorative Panel



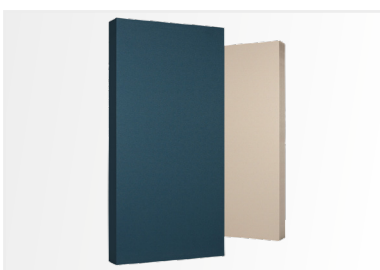
Structural panel

Decorative Panel



Structural panel

Aluminum-PET composite



Structural material


Decorative Panel




Contact:

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