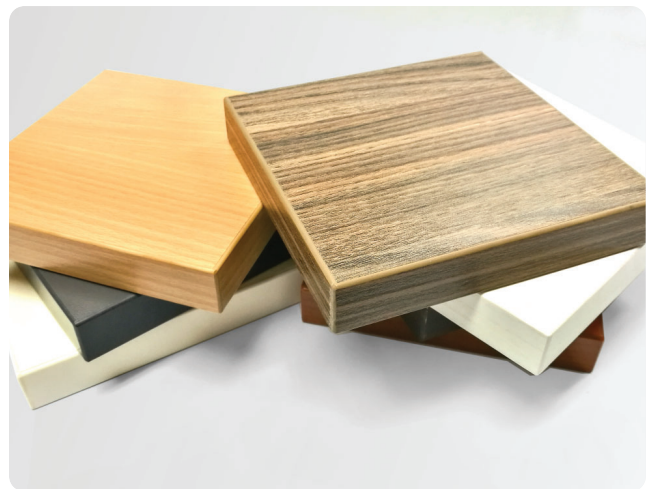




Advanced Performance
Materials

PROJECT PORFOLIO



www.advancedmaterialsus.com



Advanced Performance Materials (APM)

is your ultimate materials technology and solutions provider for interior, exterior, and insulation projects. At our workshop, materials meet designers, fabricators, and installers, and together we transform materials into ultra-performing products and solutions for commercial and residential construction, transportation industries, and marine projects. We specialize in structural thermal insulation, sound and noise insulation, and super-structural parts and components. At our workshop, we fabricate and produce the finest quality ultra-performing materials and solutions for residential building interiors, commercial building interiors, furniture, cruise, yacht, and vessel structural, thermal, and noise insulation projects. As experienced professionals in the field, we understand that each project is unique, and because of that, we select materials based on project specifications and technical requirements. No matter the project's complexity, we have the materials, solutions, and expertise to complete the project successfully.



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

The materials, solutions, and associated components used in various projects are sustainable, lightweight, fire retardant, DNV GL and EPD certified, and 100% recyclable. Most structural core materials are manufactured in-house, and the necessary supporting materials are sourced locally, depending on the project specification and scope of work. We are committed to meet-

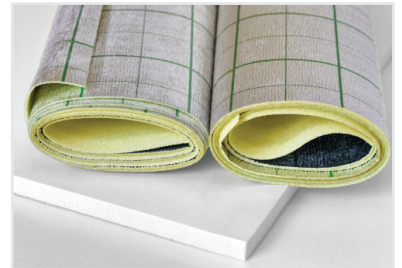
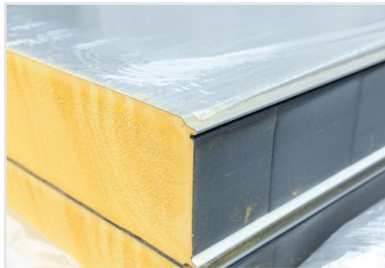
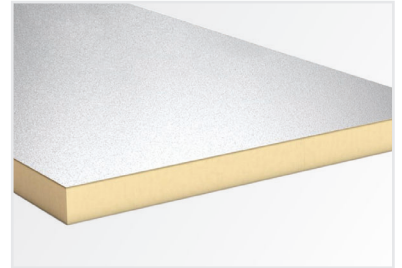
ing the highest quality and safety standards for any projects we take on. We are committed to ensuring that your project meets local, state, and federal requirements. At APM, we offer a range of products and services for construction, transportation, and marine projects. All our raw materials and solutions meet industry standards and regulatory requirements.

PRODUCTS & SOLUTIONS:

Structural thermal insulation project

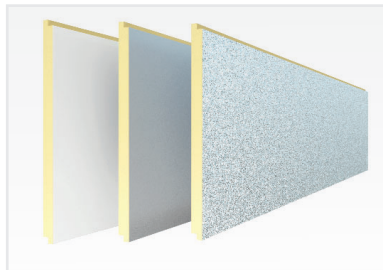
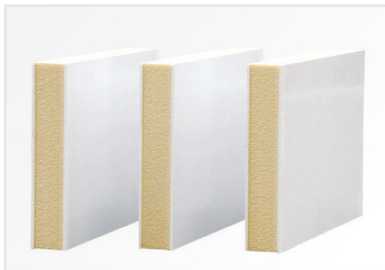
Insulation PU/PIR materials, Aluminum laminated solution.

Aluminum laminated PU and PIR foam core-based structural thermal insulation materials, panels, and components—project-specific custom cutting and fabrication of thermal insulation panels, components, and large structures.



Thermoplastic laminated PU/PIR insulation products.

Custom fabrication and mass production of PET and PP laminated Cellulose, PU, and PIR foam core-based structural thermal insulation panels and large structures.



Bioplastic laminated PU/PIR insulation solutions.

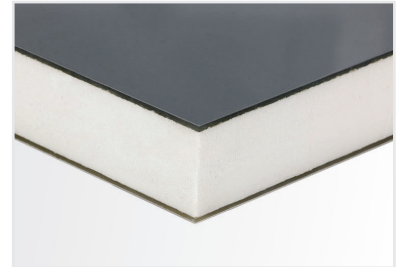
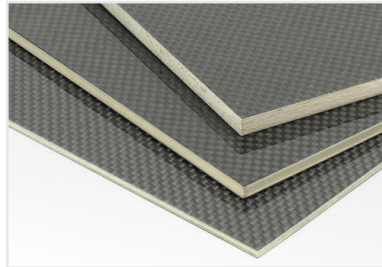
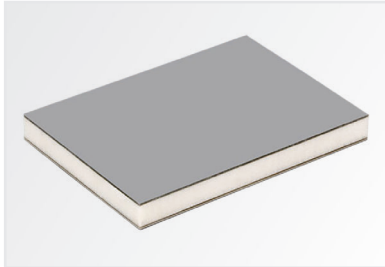
Project-specific custom fabrication and mass manufacturing of PLA and biopolymer laminated PU, Cellulose, and PIR foam core-based structural thermal insulation panels and components.



Structural thermal insulation project

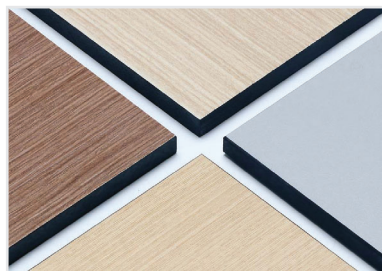
Glass fiber/Carbon fiber laminated PU/PIR insulation solutions.

Custom manufacturing of glass fiber and carbon fiber laminated cellulose, PU, and PIR foam core-based thermal insulation sandwich composite panels and structures.



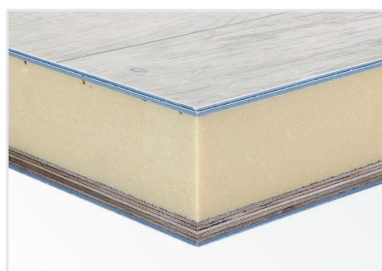
HPL laminated PU/PIR insulation solutions.

Custom fabrication of HPL Phenolic laminated Cellulose, PU, and PIR foam core-based structural thermal insulation panels and large structures.



Plywood/Gypsum sheet laminated PU/PIR insulation products.

Fabrication and production of Gypsum sheet and Plywood laminated PU, PIR, and Cellulose foam core-based structural thermal insulation panels and large structures.



Application:

- ✓ Commercial building roof, ceiling, wall, and floor thermal insulation projects
- ✓ Residential building roof, ceiling, wall, and floor thermal insulation projects.
- ✓ Airport roof, ceiling, wall, and floor insulation projects.
- ✓ Stadium and auditorium insulation projects.
- ✓ Shopping center and public venue insulation projects.
- ✓ Supermarket and cold storage warehouse insulation projects.
- ✓ Public infrastructure insulation projects.
- ✓ Cruise and yacht interior, wall, ceiling, and floor thermal insulation.
- ✓ Rail car, train, and bus interior thermal insulation.
- ✓ Rail and cruise engine room heat insulation.
- ✓ Industrial thermal insulation projects.
- ✓ Cold storage and commercial kitchen thermal insulation.
- ✓ Thermal insulation panels for transportation containers.
- ✓ Cold and weather insulation panels for caravan and recreational vehicles.

Material Specification:

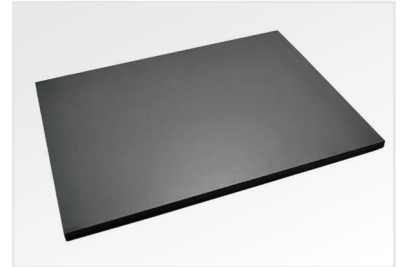
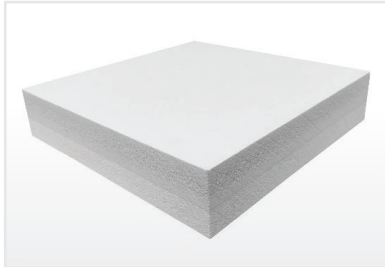
- ✓ 100% recyclable and sustainable.
- ✓ Minimum carbon footprint, sustainable materials processing.
- ✓ Remarkable strength-to-weight ratio.
- ✓ Exceptional mechanical and physical strength.
- ✓ Ultimate thermal and heat insulation.
- ✓ Ultimate temperature and pressure stability.
- ✓ Standardized flame and smoke resistant.
- ✓ No water and moisture absorption.
- ✓ Excellent UV stability.
- ✓ Extreme weather resistant.
- ✓ Excellent service life.
- ✓ Meet EPA sustainability standards.
- ✓ Meet EPD, LCA, and DNV-GL standards.
- ✓ Meet US, Canada, and EU regulatory requirements.
- ✓ Easy installation and minimum maintenance.
- ✓ Excellent physical stability under hot and cold environments.
- ✓ Manufactured in USA.

PRODUCTS & SOLUTIONS:

Interior and exterior structural projects

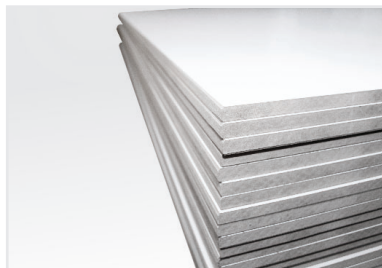
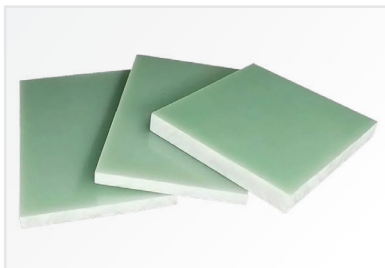
PVC/PET/PU structural foam core materials.

Project-specific custom cutting and fabrication of PVC, PET, and PU foam core-based structural panels, large parts, and components.



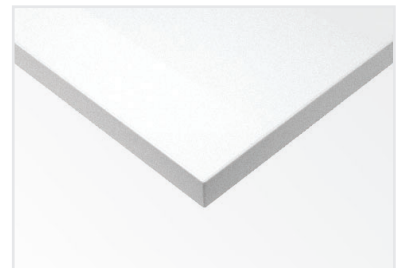
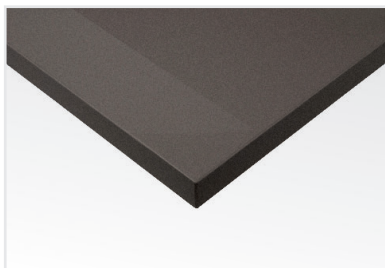
Thermoplastic laminated PVC/PET/PU structural products.

Fabrication and mass production of PET and PP laminated PVC, PET, and PU structural panels and large parts of any dimensions.



Biopolymer laminated PVC/PET/PU structural solutions.

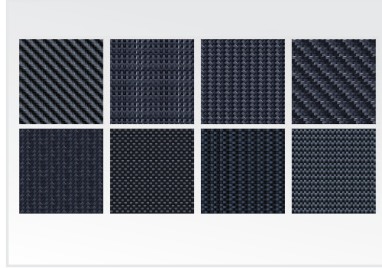
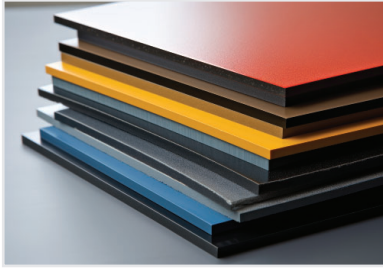
Project-specific custom cutting, fabrication, and mass manufacturing of PLA and biopolymer laminated PU, PVC, and PET foam core-based super-structural structural panels.



Interior and exterior structural projects

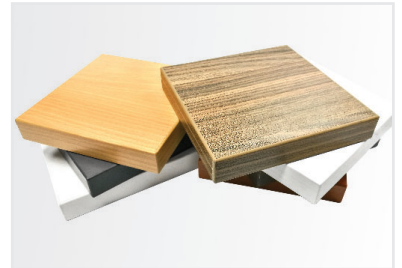
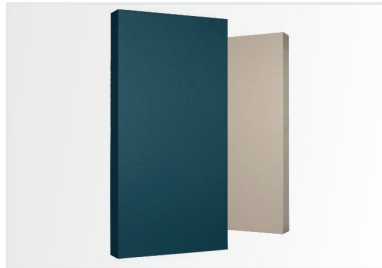
Glass fiber/Carbon fiber laminated PVC/PET/PU structural panels.

Custom fabrication and production of glass- and carbon-fiber laminated PU, PVC, and PET foam core-based super-structural sandwich composite panels and large structures.



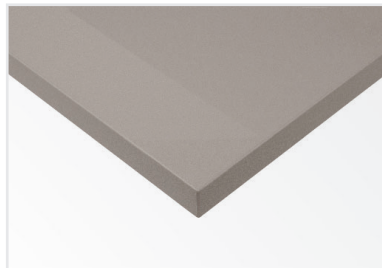
HPL laminated PVC/PET/PU structural solutions.

Custom manufacturing HPL Phenolic laminated Cellulose, PU, PVC, PET foam core-based structural sandwich composite panels and large structures.



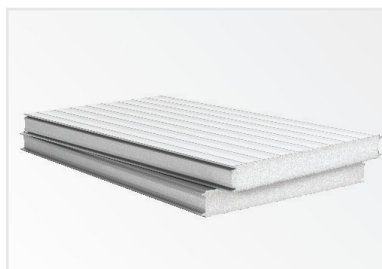
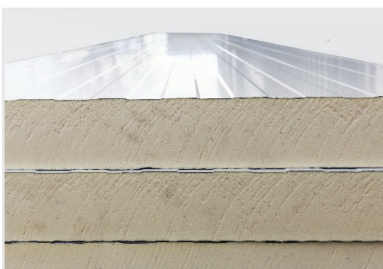
Plywood laminated PVC/PET/PU structural panels.

Fabrication and production of Synthetic wood and Plywood laminated PU, PET, PVC, and Cellulose foam core-based structural panels and large structures.



Aluminum laminated PVC/PET/PU structural panels.

Fabrication and mass production of aluminum laminated PVC, PET, and PU structural composite panels and large parts of any dimensions.



Application:

- ✓ Commercial roof, ceiling, wall, and interior structural panels and components.
- ✓ Residential roof, ceiling, wall, and interior structural panels and components.
- ✓ Airport interior and exterior structural decoration and construction.
- ✓ Hotel and office interior structural decoration project and furniture.
- ✓ Cruise and yacht interior, wall, ceiling, and decking structural projects.
- ✓ Cruise, yacht, and ferry interior structural decoration.
- ✓ Rail car, train, and bus interior structural projects.
- ✓ Rail car, train, bus interior panels, furniture, and decoration.
- ✓ Structural panels and large structures for the warehouse and storage facility.
- ✓ Stadium and recreational venue structural projects.
- ✓ Interior and exterior structural panels and components for caravan and recreational vehicles.
- ✓ Panels and structural components for furniture and infrastructure.

Material Specification:

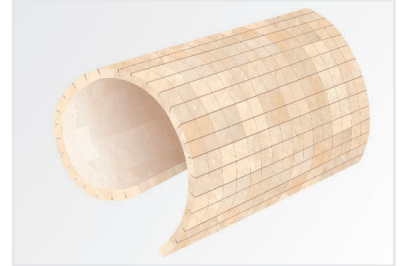
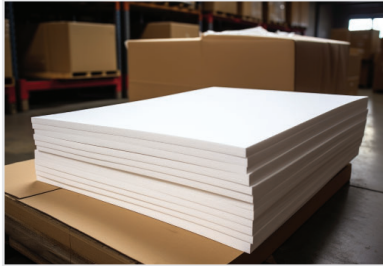
- ✓ 100% recyclable and sustainable.
- ✓ Super lightweight
- ✓ Minimum carbon footprint, sustainable materials processing.
- ✓ Remarkable tensile and compression strength.
- ✓ Exceptional mechanical and physical strength.
- ✓ Ultimate strength-to-weight ratio.
- ✓ No water and moisture absorption.
- ✓ Excellent thermal and heat stability.
- ✓ Extreme weather resistant.
- ✓ Standard fire retardancy.
- ✓ Excellent service life.
- ✓ Meet EPD, LCA, and DNV-GL standards.
- ✓ Meet US, Canada, and EU regulatory requirements and standards.
- ✓ Easy installation and minimum maintenance.
- ✓ Excellent cold and hot weather resistance.
- ✓ Manufactured in USA.

PRODUCTS & SOLUTIONS:

Structural noise and acoustic insulation project

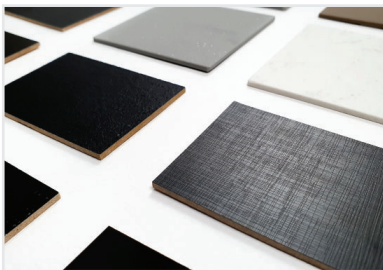
Wood fiber/Balsa/Cellulose foam sound insulation materials.

Project-specific custom fabrication of Wood fiber, Balsa, and Cellulose foam-based noise, acoustic insulation panels, and large structures.



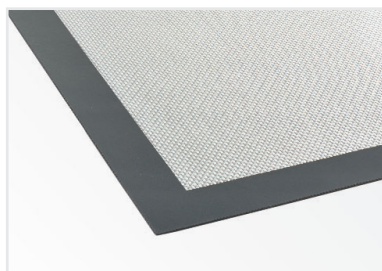
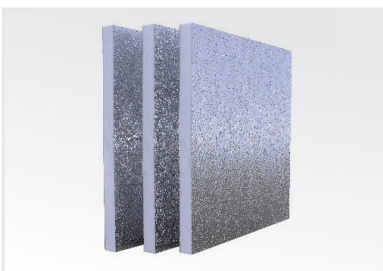
Polyester film laminated Wood fiber/Balsa acoustic insulation solutions.

Fabrication and mass production of Polyester film laminated fiberglass composite sheets and sandwich composite structures.



Fiberglass laminated Wood fiber/Balsa noise insulation products.

Custom fabrication and manufacturing of Polyester and Fiberglass laminated Wood fiber, Balsa, and Cellulose foam core-based structural noise and acoustic insulation panels and large structures.



Structural noise and acoustic insulation project

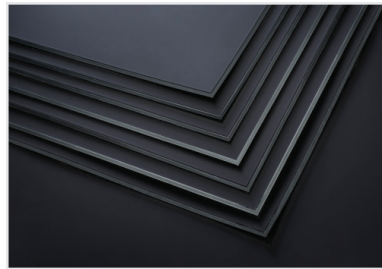
Polyester film laminated PET/PU acoustic insulation solutions.

Project-specific custom fabrication of Polyester film laminated PET, Cellulose, and PU foam core-based noise insulation panels and components.



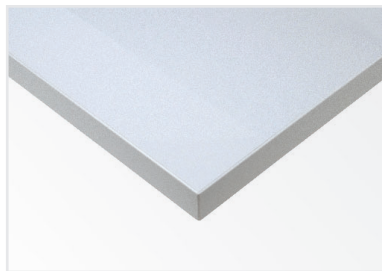
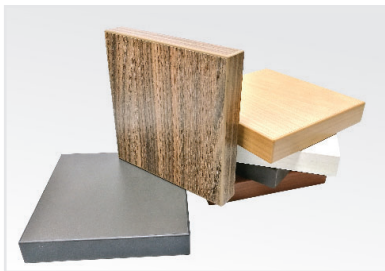
HPL laminated PET/Cellulose noise insulation solutions.

Custom fabrication and mass production of HPL Phenolic laminated Cellulose, wood fiber, and PET foam core-based sandwich composite acoustic insulation panels and components.



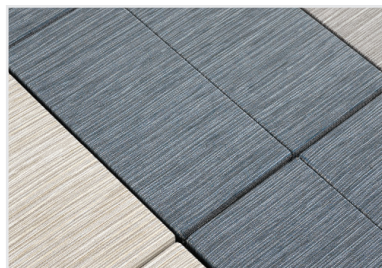
Biopolymer laminated Wood fiber/Balsa noise insulation products.

Fabrication and mass manufacturing of PLA and biopolymer laminated Wood fiber, PU, and Cellulose foam core-based noise insulation panels and large structures.



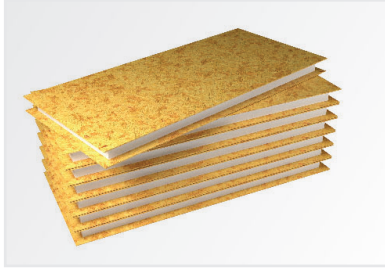
Cotton laminated Wood fiber/PET sound insulation products.

Custom fabrication and mass production of EVA-Cotton fabric laminated Wood fiber, Cellulose, and PET foam core-based sound insulation-absorption sandwich composite panels, parts, and components.



Plywood laminated Wood fiber/Balsa noise insulation products.

Custom fabrication and mass production of Wood and Plywood laminated Wood fiber, Cellulose, and PET foam core-based sound insulation-absorption sandwich composite panels, parts, and components.



Application:

- ✔ Commercial building interior noise and acoustic insulation.
- ✔ Residential building interior noise and acoustic insulation.
- ✔ Airport interior noise and acoustic insulation and blocking project.
- ✔ Hotel and office interior noise and acoustic insulation.
- ✔ Cruise and yacht interior noise and acoustic insulation.
- ✔ Rail car, train, bus sound, acoustic insulation, and blocking.
- ✔ Rail, cruise, and industrial engine room noise-blocking project.
- ✔ Auditorium museum and theatre sound insulation and blocking projects.

Material Specification:


- ✔ 100% recyclable and sustainable.
- ✔ Minimum carbon footprint, sustainable materials processing.
- ✔ Exceptional mechanical and physical strength.
- ✔ Ultimate noise and acoustic insulation.
- ✔ No water and moisture absorption.
- ✔ Excellent thermal and heat stability.
- ✔ Extreme weather resistant.
- ✔ Standard fire retardancy.
- ✔ Meet EPD, LCA, and DNV-GL standards.
- ✔ Meet US, Canada, and EU regulatory requirements and standards.
- ✔ Easy installation and minimum maintenance.
- ✔ Excellent physical stability under hot and cold environments.
- ✔ Manufactured in USA.



Contact:

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