Marine

Lightweight Panel Solutions for Marine Vessel Interiors
At Plascore we are committed to providing a high-quality product, paired with engineered solutions, for a wide variety of applications. We are a global manufacturer of honeycomb panels, which are a high-strength, lightweight material for use in the Marine Industry. Our engineers can work with your team to manufacture panels that meet your requirements. We are capable of providing basic honeycomb panels, joining extrusions and hardware, as well as finished assemblies.
Benefits of Honeycomb Panels

**Lightweight | Strong | Stable | Cost-Effective | Moisture & Corrosion Resistant**

Plascore Honeycomb Panels are a high-strength, lightweight material that provide efficient mechanical performance. Our lightweight panels are an excellent alternative to monolithic materials (e.g., solid aluminum, wood and steel) as well as panels with traditional core materials such as plywood, balsa, and foam.

Available in a wide range of sheet sizes and facings, our honeycomb panels are designed for ease of use in many common applications and processes. They can be engineered to meet specific requirements for strength and stiffness. Plascore Honeycomb Panels are used in many situations that require elevated core shear, compression and adhesion performance.

**Areas honeycomb can be used:**
Plascore Marine Panel System

Plascore has developed marine panels specifically for marine vessel interior applications. Our marine panels are certified by the United States Coast Guard and are approved as meeting Part 1 of Annex 1 of the IMO FTP Code with adhesive meeting Part 5 of Annex 1 of the IMO FTP Code.

We also have a variety of joining extrusions available to construct virtually any condition for bulkhead liners, solid partitions, cabinets, overheads, and decking.

Configurations

Basic aluminum panel

Decorative panel with aluminum backer

Decorative panel without aluminum backer

One-sided decorative panel with aluminum backer

One-sided decorative panel without aluminum backer
*Other joiners are available. Please contact your Plascore Sales Representative for a full list of options.
Custom Panel Solutions

Based on your project, there are endless options of honeycomb materials, construction, finishes and fabrication to give you a strong, lightweight product. This page gives an idea of how we can customize our products for any application. Please contact your Plascore Sales Representative for more details.

Material and Finishing Options

**Skin Materials:**
- Aluminum
- Stainless Steel
- High Pressure Laminate
- Glass/Epoxy Prepreg
- G10 Fiberglass

**Skin Finishes:**
- Clear Epoxy Primer
- Mill Finish
- Bond and/or Paint Ready
- Decorative Vinyl
- High Pressure Laminate
- Powder Coat

**Honeycomb Cores:**
- Aluminum (Commercial and Aero/Military Grade)
- Nomex® (Commercial and Aero/Military Grade)
- Kevlar® (Aero/Military Grade)
- Stainless Steel
- Polypropylene
- Polycarbonate

**Adhesives:**
- Commercial grade toughened epoxy
  - Cost-effective
  - Service Temperature options up to 180° F
- Modified Epoxy Film Adhesive
  - Service Temperature options up to 400° F
  - Multiple weights available
  - Can be MIL spec or ASTM certified

**Sizes:**
- Thickness: 1/8” – 3” standard
- Width: 48” and 60” standard
- Length: up to 190” standard
**Fabrication Options**

**Co-Fabricated Edge Closeouts**
- Solid Wood/Metal
- Channel
- Tube
- Formed

**Post-Fabricated Edge Closeouts**
- Channel
- Epoxy Core Fill

**Blind Fastening**
- Potted Insert
- Rivet Nut

**Thru Fastening**
- Hard Point
- Potted Insert

**Manufacturing Competencies**
- Chemical Surface Treatment
- Adhesive Formulation
- Core Forming
- Laminating Presses
- Panel Fabrication
- 4-Axis CNC Machining
- Panel Assembly
- Powder Coating
- Custom Packaging
Weight-to-Thickness

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Flexural Rigidity-to-Thickness
Our Process

At Plascore, the quality of our process is as important to us as the quality of our product. Along with strong, lightweight Honeycomb Panels, we will walk you through the process of creating the products you need, from idea to design to deployment.

1. Sales & Design

Our Sales Team will be your first point of contact, and will follow up with you throughout the entire process. The Sales Team is a liaison between you and the rest of the Plascore team, from communicating design requirements to conducting negotiations. As part of the Sales Team, our Sales Engineers will review and analyze your project. If they think your design needs any changes, they will offer suggestions and finalize blueprints. This step of the process may go a few rounds, to ensure the project is ready to go before we move on to the next steps.

Our purchasing department works with our engineers to source the raw materials needed for your project. We have a large and established supply base and are capable of handling large, complex projects. We make decisions about make versus buy and yield optimization to help your project to be cost effective.

2. Purchasing / Procurement
Our Production Team includes Manufacturing Engineers, Panel Technicians, CNC Programmers and Operators. Your project will be led by a Production Supervisor, who will optimize the use of equipment, minimize waste, and ensure on-time delivery. Our engineers will help set up the process for your specific project and ensure that your product meets quality standards. Our CNC programmers work with CAD/CAM Software such as Solidworks, AutoCAD, and Catia V5.

Our quality control department works alongside our manufacturing group to ensure your product is made correctly according to your specifications.

**Accreditations include:**
- AS/EN/JISQ 9100
- ISO 9001:2000
- NADCAP
- ISO 14001
- IMO FTP Compliant
- IS0 9001:2000
- USCG

Our quality department and lab performs a variety of testing such as:
- Compression
- Tension
- Shear
- Adhesive Testing
- Thermal Loading
- Humidity
- Salt Spray
- NFPA 130
- Testing per ASTMs

They also can provide First Article Inspections and reports as well as finished panel Certifications. At Plascore we are also ISO certified.

Our shipping department has a close relationship with a variety of carriers in order to provide the best shipping rate with the least amount of transit time. They will work with your preferred carrier as well.

- Just-In-Time Delivery
- Custom Kit packaging
- Warehousing

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**Corporate Headquarters**

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