The Doorway

A Publication of The Gill Corporation

High-Performance Composite Products Since 1945 • www.thegillcorp.com

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A DEEP DIVE: CORPORATE HEADQUARTERS

(EL MONTE, CA)



ANTIMICROBIAL TREATED

CORPORATE FLAGSHIP INNOVATIONS

Honeycomb Cores, Laminates & Sandwich Panels

The Gill Corporation (TGC) manufactures high-performance aerospace composites, including structural sandwich panels, advanced honeycomb cores, specialty laminates, and custom kitting solutions. Founded in 1945, TGC has grown from a local business into a global supplier serving the aerospace, space, defense, marine, and rail industries.

Spanning eight buildings and 390,000 ft² (36,232 m²), our El Monte, California headquarters (TGC-El Monte) serves as our global operational hub. The facility integrates advanced R&D, resin synthesis, and high-capacity composite manufacturing with specialized processing, multi-axis machining, fabrication, sub-assembly, and kitting for ready-to-install parts.

While our facilities in Maryland and France specialize in metallic core processing, El Monte drives the foundational material chemistry and primary panel production behind our global product lines.

Note: This feature concludes our Center of Excellence (CoE) series, following deep dives on our Maryland and France operations.

VERTICAL INTEGRATION

Delivering these global product lines requires total in-house process control. Modern flight decks, passenger cabins, and cargo bays require structural sandwich panels built to handle heavy mechanical loads, strict fire-smoke-toxicity (FST) standards, and harsh operating environments. At TGC-El Monte, our team manages the entire manufacturing process under one roof, from formulating custom resins to machining and assembly. This end-to-end approach ensures every part arrives pre-qualified, fully compliant, and ready for immediate installation.



Corporate Headquarters
El Monte, CA



2016

El Monte facility expansion to 8 buildings - 390,000 ft² (36,232 m²)



1960

Moved from Montebello, CA to El Monte, CA



9/11/1945

First Home began as Peerless Plastic Products, Inc.

CAPABILITIES

To support this vertically integrated process, TGC-El Monte maintains a broad range of manufacturing and processing capabilities:

Raw Material Synthesis

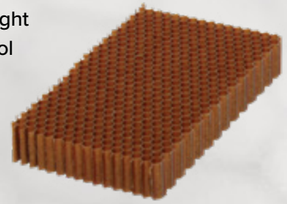
We formulate our own resins, adhesives, and prepregs on-site to meet strict fire, smoke, and toxicity (FST) standards. By controlling our chemistry batch-to-batch, we ensure consistent mechanical performance across our composite structures.






Honeycomb Core Manufacturing

We process meta-aramid, para-aramid, and non-metallic materials into lightweight honeycomb cores using our own block-building and expansion lines. We control core density and cell structure to optimize stiffness, energy absorption, and weight reduction for commercial and defense programs.





Printer



Expander



Resin Dip



Stacker

Honeycomb Materials are Available in Many Forms:

- Block
- Sliced
- Machined
- Unexpanded
- Bonded Structures
- Composite Core Sandwich Panels

Honeycomb Special Processing

Secondary operations on raw core blocks, including multi-axis chamfering, planform trimming, roll forming, and septum bonding, achieve complex 3D contours. We form precise curvatures without compromising structural integrity, followed by potting, slotting, and edge-stabilization to prepare cores for subassembly.



Chamfering



Potting



Core Stabilization

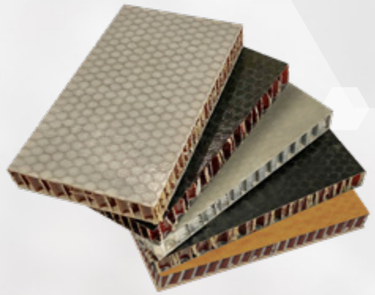


Thermal Forming & Bonding



Sandwich Panel Manufacturing

We produce composite sandwich panels for aircraft interiors using press and vacuum bag curing lines. Engineered for maximum strength and weight savings, our panels are used in passenger flooring, galleys, lavatories, bulkheads, instrument panels, and cabin furniture, as well as heavy-duty, impact-resistant cargo flooring and sidewalls.



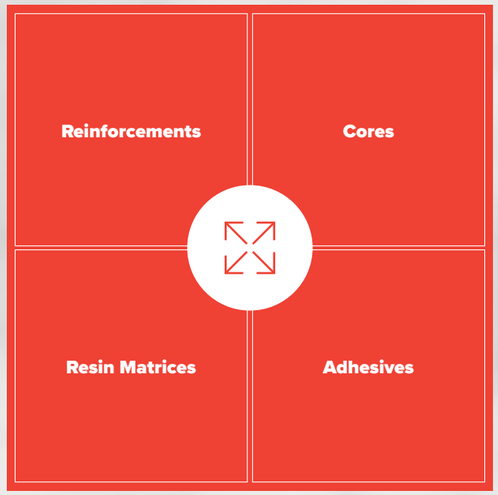
Panels are bonded in a press and can be made with any combination of the following material types:

REINFORCEMENTS

- Unidirectional Glass (E/S)
- Woven Glass (E/S)
- Unidirectional Carbon
- Aluminum

RESIN MATRICES

- Epoxy
- Phenolic
- Vinyl Ester
- Polyester
- Nylon

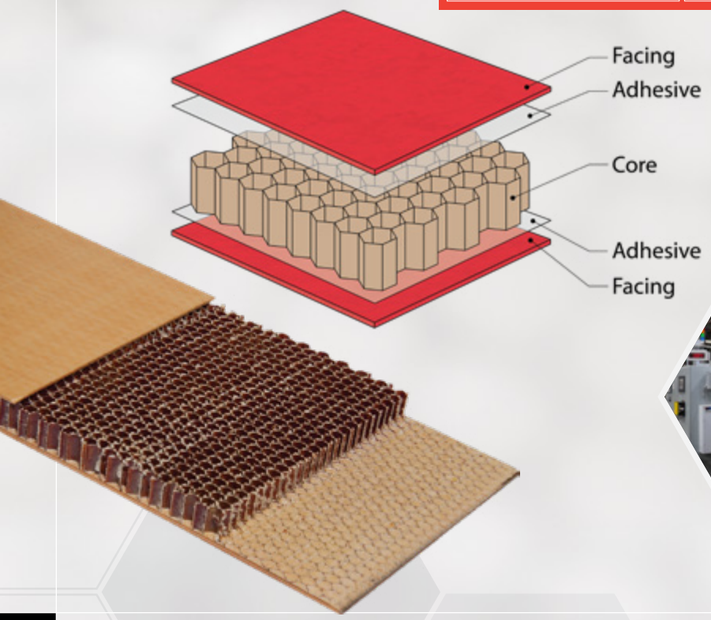


CORES

- Aluminum Honeycomb
- Meta-Aramid Honeycomb
- Para-Aramid Honeycomb
- End-Grain Balsa Wood

ADHESIVES

- Epoxy
- Phenolic
- Contact





Multi-Opening Platen Press

Material Lay-up

Laminate Manufacturing

We manufacture phenolic, epoxy, and glass-reinforced laminate sheets in-house to satisfy structural, durability, and flame-retardant requirements across sandwich panel face sheets, protective overlays, and standalone components. Designed for bulk and containerized cargo compartments, these durable liners deliver exceptional dimensional stability for sidewalls, ceilings, and partition walls while providing an airtight, FAR 25.855-compliant fire barrier when attached and tape-sealed to the airframe.





RESIN
Epoxy, Phenolic, Polyester, Vinyl-ester, bio-based Polyfurfuryl Alcohol



COUPLING AGENT

REINFORCEMENT
Aramid, E-Glass, S-Glass, Carbon, Hybrids

HEAT

PRESSURE

CURING

FINAL PRODUCT



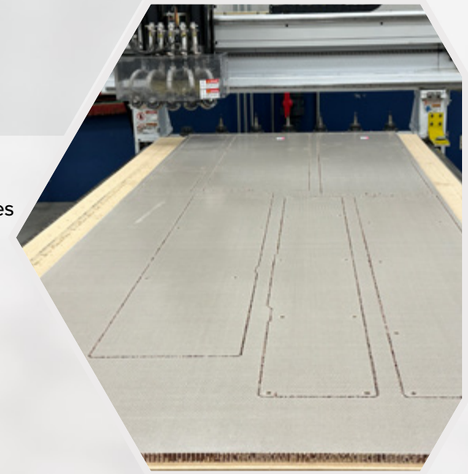






Rotary Cure Press

Precision Machining
Using 3-, 5-, and 6-axis CNC machining, we hold tight tolerances on complex contours, cutouts, and edge profiles across metallic and non-metallic substrates. Our high-speed spindles process composites without edge delamination, while hard-metal capabilities enable precision titanium machining for integrated structural assemblies.



Fabrication, Assembly, and Kitting
We provide complete, installation-ready parts for OEM and aftermarket customers, ranging from simple components to complex assemblies and full shipset kits. Capabilities cover both flat and contoured assemblies, including multi-functional panels:

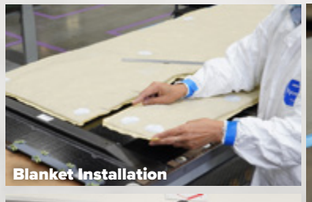
Inserts and damping: Precise installation of structural inserts, insulation blankets, and sound or vibration damping materials.

Structural hardware: Direct attachment of fittings, intercostals, splice plates, and other metallic or composite hardware onto subassemblies.

Finishing and labeling: Application of anti-skid tapes, part markings, and labels for quick identification and streamlined installation.

Edge sealing and bonding: Application of edge fill, edge sealing, and vacuum bagging to protect parts from moisture damage and deliver maximum bond strength.

Quality control and inspection: Every finished part is fully inspected and verified using high-precision CMM and Romer Arm equipment.


Blanket Installation


Edge Fill


Romer Arm


Vacuum Bag/Oven Cure


6-Axis Robotic Insert Installation

MAJOR PRODUCT LINES

To support these demanding applications, TGC-El Monte produces a targeted portfolio of non-metallic cores, structural panels, and liner systems engineered for specific environmental and structural requirements.

For a full catalog of data sheets, please visit **www.thegillcorp.com**.

Product	Description	Benefits	Typical Applications
GILLCORE® Series (HD/HK/HA)	Non-metallic aramid honeycomb cores fabricated from meta-aramid (HD) or high-modulus para-aramid (HK, HA) fiber paper impregnated with phenolic resin.	• High strength-to-weight ratio, stiffness, and impact resistance.	Cabin flooring, bulkheads, sidewalls, overhead bins, control surfaces, radomes, and acoustic engine nacelles.
***GILLFAB®**	Structural composite sandwich panels with customizable skins, resins, and cores.	• Tailored for specific load and impact requirements. • Meets FAA/EASA fire, smoke, and toxicity (FST) standards. • Pre-tested and ready for installation.	Interior bulkheads, partitions, lavatories, galleys, floors, and cargo structures.
GILLFLOOR®	Lightweight passenger and cargo cabin flooring panels.	• Resists heel-point loads and impacts. • Reduces weight compared to metal flooring. • Corrosion-resistant for longer service life.	Passenger cabin floors, aisles, cargo decks, and flight decks.
GILLINER®	Flame-resistant polyester and epoxy laminate cargo bay liners.	• Puncture and tear resistant. • Meets FAR 25.855 burn-through standards. • Conforms easily to curved fuselage walls.	Cargo bay walls, lower-hold bulkheads, ceiling liners, and baggage areas.
GILLVANA®	Acoustic insulation and sound-dampening laminate materials.	• Dampens sound with minimal added weight. • Provides thermal insulation. • Flexible for installation around tight geometries.	Cabin sidewall insulation, engine noise barriers, and interior soundproofing.

***Note on Product Classifications:** The Gillfab® line includes a wide variety of structural sandwich panels used for bulkheads, floors, and cargo areas. Depending on aircraft specifications and resin systems, our heavy-duty cargo liners are offered under both the Gillfab® and dedicated Gilliner® brand names.*

RAW STOCK PANEL → PROGRAMMING → MACHINING → INSERTS INSTALLED → COMPONENT ATTACHED → PART MARKINGS → FINAL INSPECTION → KITTED BY AIRPLANE SECTION → DELIVERED "INSTALLATION-READY"

MAJOR PROGRAM SUPPORT

Our facility manufactures structural panels and composite products for major commercial, business jet, space and defense programs:

Boeing & Airbus Commercial Fleet: Our team supplies floor panels and cargo liners for narrow-body and wide-body platforms, including cargo and passenger floor kits for the Boeing 737, 777, 777X, and 787, as well as floor and interior panels across the Airbus A320 and A350 families. Specialized builds include Airbus A380 cockpit/EE bay panel fabrications and A350 oxygen bottle storage racks.

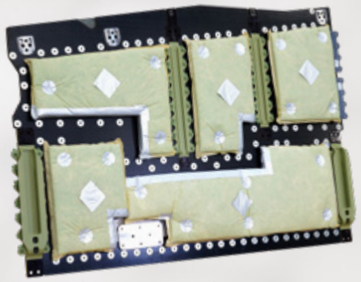
Passenger-to-Freighter (P2F) Conversions: We deliver high-strength floor panels, cargo liners, and structural details for major P2F conversion programs across Boeing (B737, B747, B757, B767, B777), Airbus (A320, A321, A330), ATR (42/72), Embraer, and other OEMs.

Business Jet Interiors: We manufacture lightweight structural sandwich panels and custom components for interior galleys, bulkheads, cabinetry, and lavatories where weight reduction directly extends aircraft range. Specific support includes Gulfstream formed, contoured interior panels, and IAI G280 cabin/cargo bay floors and sidewalls.

Space & Defense Platforms: We supply specialized laminates and rigid panels engineered for high mechanical stress and extreme thermal conditions in satellite structures and military transport.

Global Aerospace Aftermarket & OEM Support: To help airlines minimize grounded fleet time, TGC-El Monte provides build-to-print manufacturing, flight crew seat repair, and rapid-turn replacement panels or pre-cut floor kits. Using OEM-qualified materials and holding Parts Manufacturer Approval (PMA), Owner/Operator Produced Parts (OOPP), and Supplemental Type Certificate (STC) approvals, our fleet support teams partner directly with operators to upgrade OEM designs for greater durability.

QUALITY, CERTIFICATION & REGULATORY COMPLIANCE



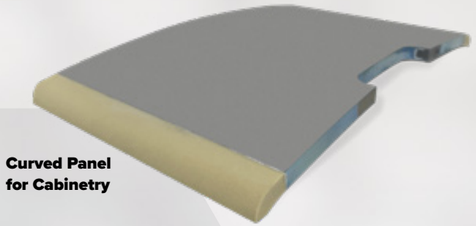
Passenger Floor Panel



Galley Structure



EE Hatch Bay



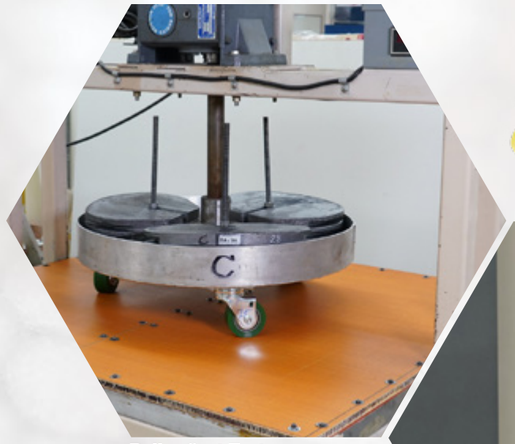
Curved Panel for Cabinetry



Packer Board

At TGC-El Monte, quality is engineered directly into every step of our manufacturing process. Backed by AS9100, ISO 9001, and NADCAP certifications, our on-site labs test every part for fire safety, flexibility, and strength to meet exact customer specifications. TGC is also an approved FAA Production Approval Holder (PAH) and can manufacture with a supplied airworthiness tag.

As our global hub, El Monte combines high-volume manufacturing with our specialized sites in Maryland and France to deliver fast, worldwide support.



Roller Cart Test

Accredited Nadcap™



Climbing Drum Peel



Flame Test

By handling everything on-site from raw materials to final assembly and kitting, we simplify supply chains, reduce lead times, and maintain strict quality control for our customers.

Please scan the QR code to view the Customer Qualification Charts.



Fun Facts

Magpies are among the smartest bird species. They can even recognize themselves in mirrors.

The atomic number of zinc is 30.

The tall chef's hat is called a toque.

In the United States, each person owns an average of seven pairs of blue jeans. That's one for every day of the week!

Whenever Charles Dickens was away from home, he would always realign the bed he was sleeping in to face northward, as he felt that this fostered and unlocked his creativity.

The collective group of lemurs is called a conspiracy.

Since 1990, the United States has added more acres of forest than it has lost, with almost 20 million new acres of forest land added in the last 2 decades.

During a conversation, each speaker's "turn" averages 2 seconds, and the pause in between is only 200 milliseconds. That figure is nearly universal.

Cold showers have more health benefits than hot or warm showers. These include improving circulation, stimulating weight loss, and easing depression.

Despite being landlocked, Mongolia has a navy consisting of seven men and one vessel, the "Sukhbaatar III," stationed on Lake Khövsgöl.

Originally, bumper cars were not supposed to hit each other. Drivers were actually supposed to avoid crashing in spite of chaotic driving. The first company to patent a bumper car was named Dodgem, in 1920.

A woman was elected to the House of Representatives four years before women even won the right to vote.

In the Netherlands' version of Sesame Street, instead of Big Bird, they have a bluebird named Pino. He was later established as Big Bird's cousin.

The full Bible has been translated into over 3,000 languages. These include fictional languages like Elvish, Klingon, and Na'vi.

The voice of Stargazer in Mass Effect 3 was done by Buzz Aldrin.

The first 4th of July celebration was in 1777.

Snakes and lizards both molt out of their old skin as they grow. Investigators have come to the conclusion that dinosaurs may have also molted.

Humans have been performing dentistry since 7000 BC, which makes dentistry one of the oldest professions.

Originally, the Pokémon Vulpix was going to be called "FoxFire."

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