



THE GILL CORPORATION

HIGH PERFORMANCE COMPOSITE PRODUCTS SINCE 1945



INTEGRATED COMPOSITES TECHNOLOGY & SOLUTIONS

THE GILL CORPORATION

The Gill Corporation was founded on September 11, 1945 by Merwyn "M.C." Gill who started the company in a garage in Montebello, California. Originally named The M.C. Gill Corporation, the company remains the oldest, continuously operating manufacturer of advanced composites for the aviation industry in the world.

The company's original market was post-war consumer items but production shifted to the commercial airline industry when an opportunity emerged to manufacture belly baggage compartment wall linings for Douglas Aircraft and the DC-6. The company developed light-weight, high-strength, corrosion-resistant Gilliner® and by the late 1950's, "Gilliner" was synonymous with baggage compartment liners.

During the early 1960's, the corporation developed a line of floor panels to withstand the damage caused by women's spiked heels. Throughout the company history, family members worked at and ran the operation. As the corporation grew and relocated, new products, like floor panels and honeycomb, were added to the line of materials manufactured at the El Monte, California facility.

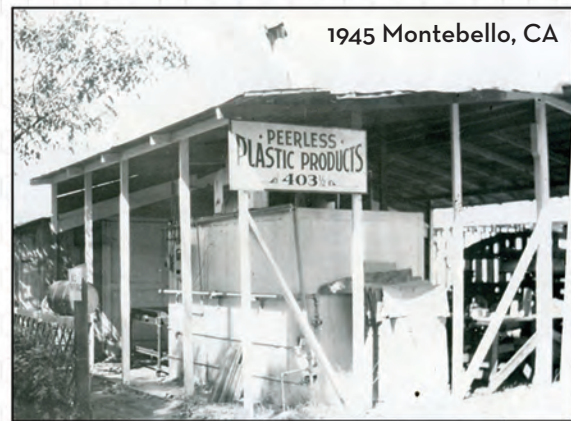
In the mid 1980's, balsa was replaced by aramid honeycomb core and in the early 1990's the corporation secured a contract with Boeing for Nomex® honeycomb and continues to produce honeycomb core for Boeing today.

From the 1990's on, the corporation grew through an aggressive strategic plan that included acquisitions and organizational enhancements. The founder's son, Stephen Gill led the expansion as it moved from its original location into a new 8 building campus and a series of acquisitions which included:

- A manufacturer of metallic sub-assemblies for commercial and military aircraft (formerly Castle Industries of California).

- **The Gill Corporation - Maryland** and **The Gill Corporation - France**, manufacture aluminum honeycomb and machine metallic and non-metallic honeycomb.

- **The Gill Corporation Europe, Ltd.** in Northern Ireland warehouses the corporation's products and fabricates floor panels.



Each subsidiary offered unique capabilities which complemented the parent corporation. Vertical integration allows the corporation to maximize efficiencies by offering a broad array of products and services to satisfy global market demand.

In 2010, founder M.C. Gill officially retired.

In 2014 the Gill family and shareholders officially changed the company name to The Gill Corporation.

Now, more than 70 years later, The Gill Corporation has operations in the United States, France and Northern Ireland. The corporation occupies over 700,000 square feet of manufacturing/ office space with over 1,000 employees.



The Gill Corporation is one of the world's largest manufacturers of honeycomb, high performance floor panels, cargo compartment liners and original equipment for passenger and freighter aircraft.

The corporation operates state-of-the-art equipment at each of its facilities in the USA and abroad. These include multiple opening presses, ovens, saws, 3 and 5 axis CNC, prepeg, CMM inspection. Each facility is staffed by experienced engineers, technicians and skilled workers who produce the raw materials and finished goods to meet customer requirements.

Honeycomb Core - Metallic - aerospace and commercial, Non-metallic - Nomex®, Kevlar®, and fiberglass.

Machined Honeycomb and Core Assemblies Fabricated Panels

Cargo Liners

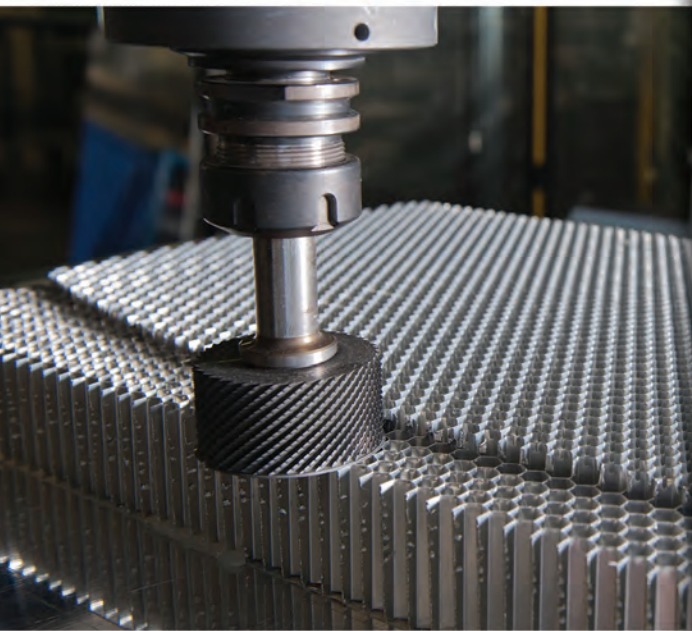
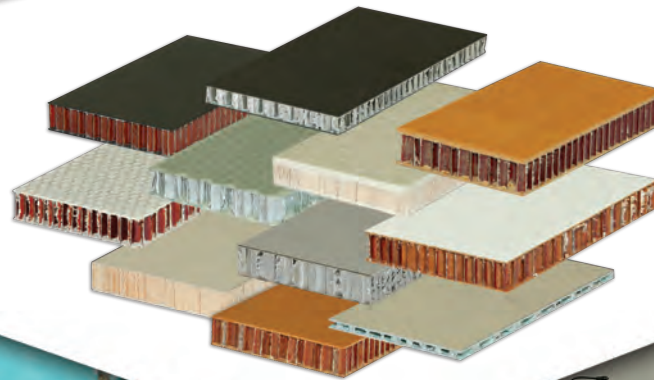
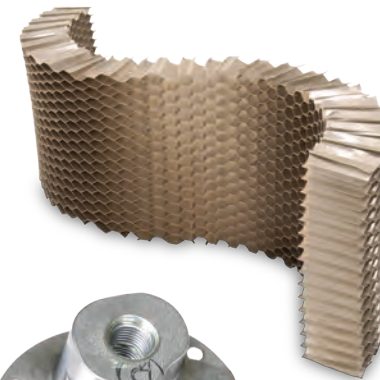
Floor Panels

Interior Panels

Prepregs

Machined Titanium

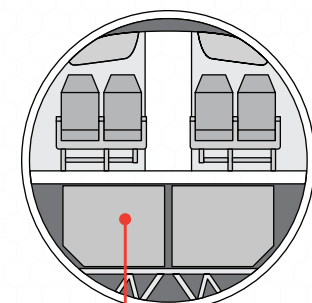
Electronic Racks and Consoles





Value-added fabrication capabilities include:

- Platform detail trimming
 - Chamfering
 - Die cutting
- High-speed, hand routing of doublers and rebates
 - Roll forming
- Heat forming and heat soaking to contours
- Vacuum oven curing for splice, septum and skin bonding
- Potting and densification for hard attach points
 - 3-axis and 5-axis CNC machining
 - 3-D design and modeling
 - Paintings/coatings, sealants
 - Inserts, fittings, edge-fill
 - Welding



Cargo Liners
Low FST, high impact fiberglass laminates.

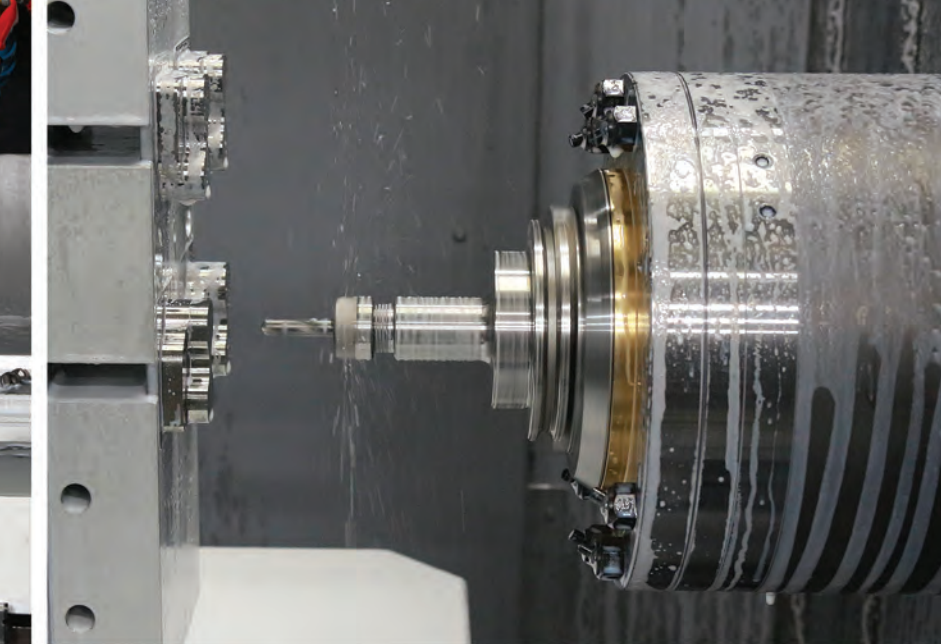
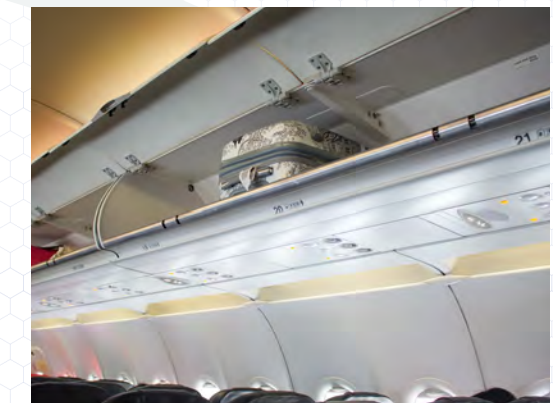
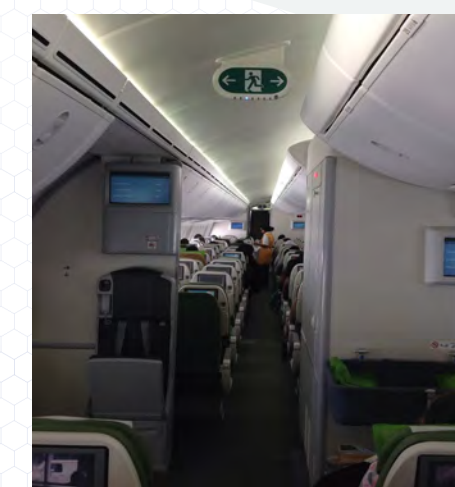
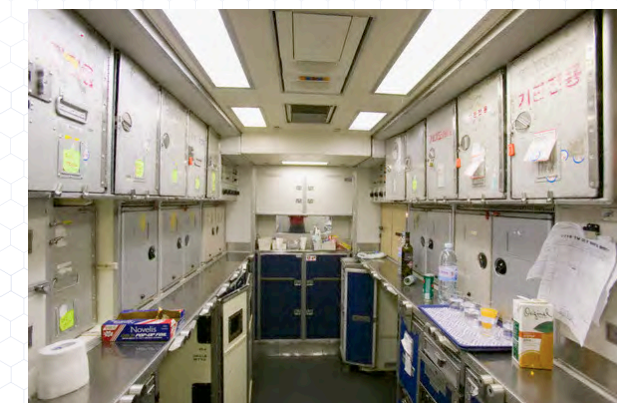
Interior Structures
Lightweight sandwich panels for interior structures.

Galley
Lightweight sandwich panels.

Floor Panels
Highly durable lightweight sandwich panels.

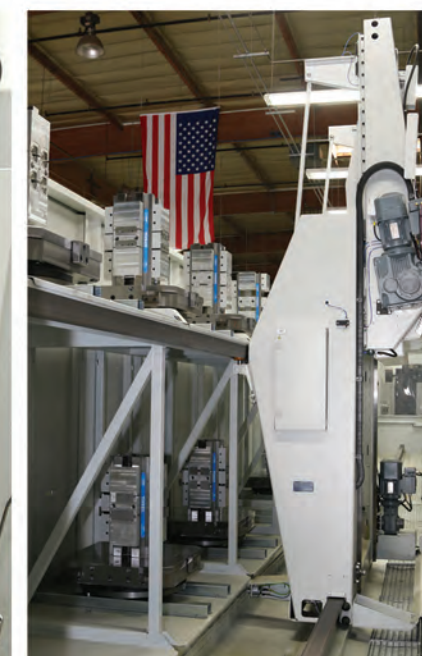
Stow Bins
Nomex® and Kevlar® honeycomb.

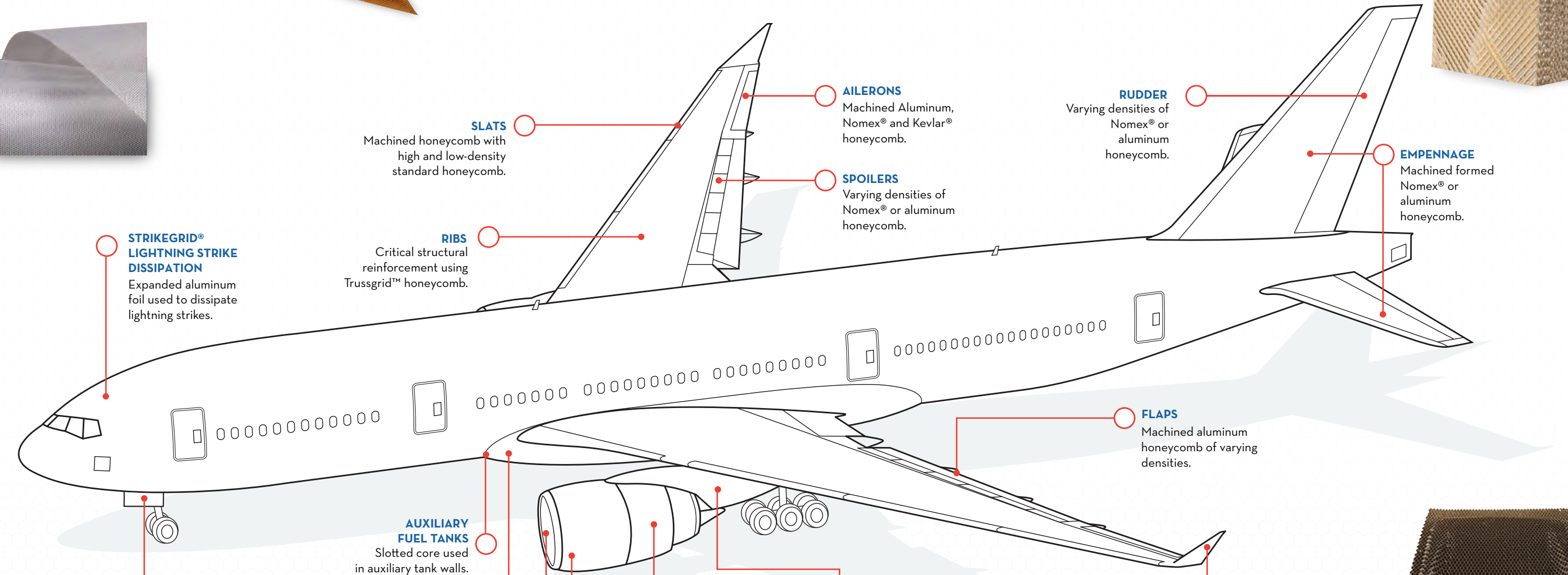
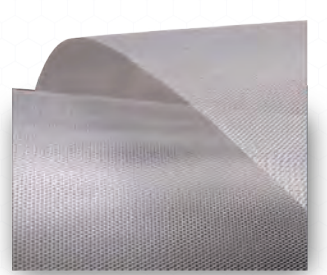
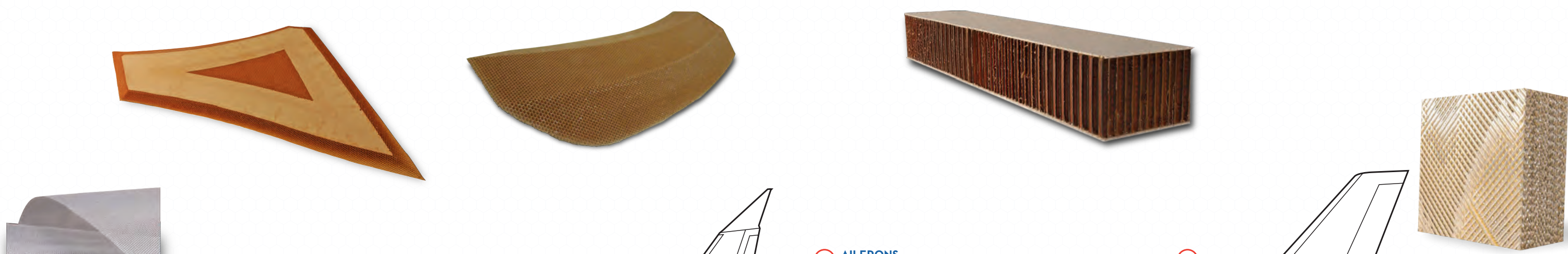
Lavatory
Lightweight sandwich panels.



Precision machining of super alloys and non-ferrous materials

- Aerospace grade aluminum
 - Titanium
 - Steel alloys
- Complex sheet-metal assemblies
 - Build-to-print





**STRIKEGRID®
LIGHTNING STRIKE
DISSIPATION**
Expanded aluminum
foil used to dissipate
lightning strikes.

SLATS
Machined honeycomb with
high and low-density
standard honeycomb.

RIBS
Critical structural
reinforcement using
Trussgrid™ honeycomb.

AILERONS
Machined Aluminum,
Nomex® and Kevlar®
honeycomb.

SPOILERS
Varying densities of
Nomex® or aluminum
honeycomb.

RUDDER
Varying densities of
Nomex® or
aluminum
honeycomb.

EMPENNAGE
Machined formed
Nomex® or
aluminum
honeycomb.

**LANDING GEAR
DOORS**
Chamfered core.

**AUXILIARY
FUEL TANKS**
Slotted core used
in auxiliary tank walls.

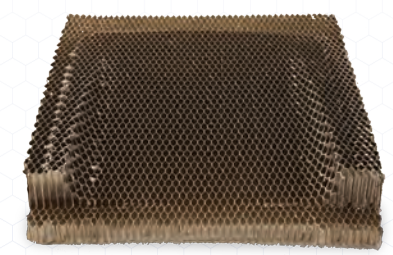
FAIRINGS
Formed and
chamfered core.

THRUST REVERSER
Inner fixed structure,
translating cowl and
blocker (doors)
(machined and bonded
honeycomb structures).

PYLON FAIRINGS
Various honeycomb
types.

FLAPS
Machined aluminum
honeycomb of varying
densities.

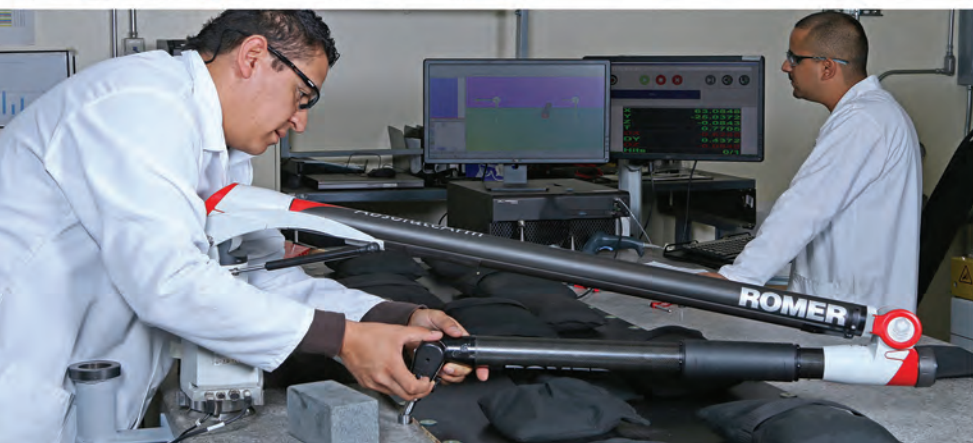
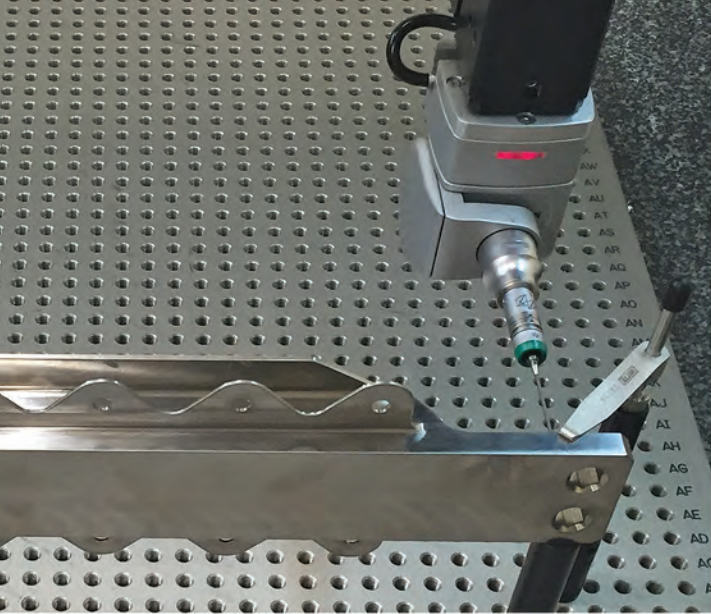
WINGLETS
Machined and formed
Nomex® honeycomb.



**FAN COWL
DOORS**
Machined Nomex®
honeycomb.

HUSHGRID®
Acoustic honeycomb
liners.





Comprehensive product testing includes:

Mechanical

- Long Beam Bending (Flexure)
- Panel Shear (Short Beam Bending)
- Flatwise Compression
- Insert Shear & Pull-out
- Impact
- Tension
- Edge Bearing
- Flex
- Plate Shear
- Lap Shear
- Peel Tests

Flammability

- Vertical Ignition
- 45 Degree, 30 Second

Analytical

- DSC
- HPLC
- TMA
- TGA
- FTIR
- Rheology
- Water Absorption & Migration

New product development that defies the boundaries of advanced composite material science.

GillFISTS® - Foamed In-situ Thermosetting System (U.S. patent No. 7,842,147) honeycomb core block with cells coated with a foaming material.

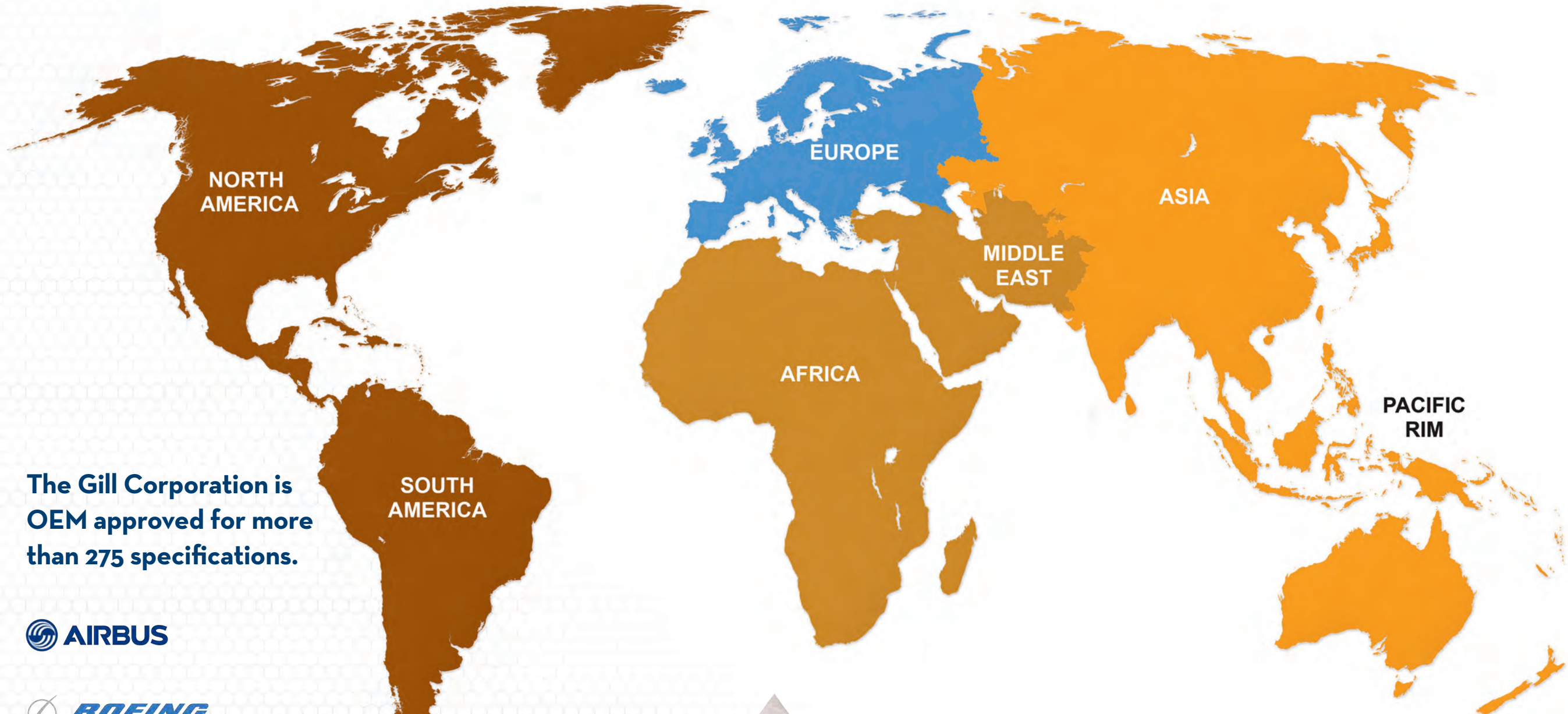
GillVANA® - An emerging technology targeted at Vibration And Noise Attenuation inside & outside an airplane. (U.S. Patent Pending.)

Kerfless - A new core process that reduces material losses. It is also considered a green process due to the use of an aqueous based resin (instead of solvent based) and no dust generation.



GillFISTS®





The Gill Corporation is OEM approved for more than 275 specifications.



Boeing Supplier of the Year Award

NADCAP
(the National Aerospace and Defense Contractors Accreditation Program) certified



EN9100
(European Quality Management System) certified



ITAR Compliant
(International Traffic in Arms Regulations)



AS 9100 Rev. D
(The Society of Automotive Engineers and the European Association of Aerospace Industries Quality Management System)



ISO 9001:2008
(Quality Management System)



QUALITY POLICY

The Gill Corporation provides products and services that always meet or exceed our customer requirements.

We will continually improve the effectiveness of the quality management system to meet the needs of all interested parties - our employees, suppliers and customers.



THE GILL CORPORATION

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