

**PLANT CULPEPER - VIRGINIA
(USA)**



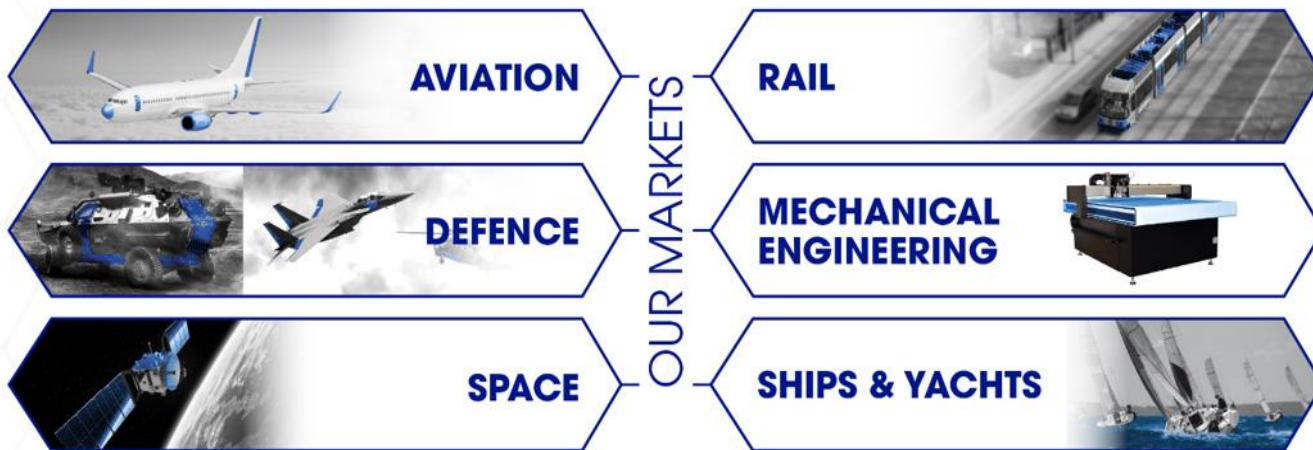
HEADQUARTER - ECHTERNACH (LUX)



**PLANT - BITBURG
(GER)**



COMPANY PRESENTATION



NEW PRODUCTION HALLS

HALL

1

ECHTERNACH: Rebuild hall of honeycomb production.

HALL

6.2

ECHTERNACH: New hall will be dedicated to defence technology production.



Echternach Site

HALL 1 NEW CONSTRUCTION WITH NEW MACHINES



New machines in hall 1

NEW PRODUCTION HALLS

HALL

5

HALL

+

Culpeper: Dedicated to the production of Honeycomb and core details

Expansion of the Bitburg Site (Aluminium center for the production of Honeycombs in alloy 5052/5056)



Culpeper Site



Bitburg Site

ECG BITBURG

New Facilities :

- Anodization plant
- Coating plant
- Sawing line
- Automated Lay-up line

Facilities planned for 2021:

- Radial expander
- Added Value

OVERVIEW NEW EQUIPMENT

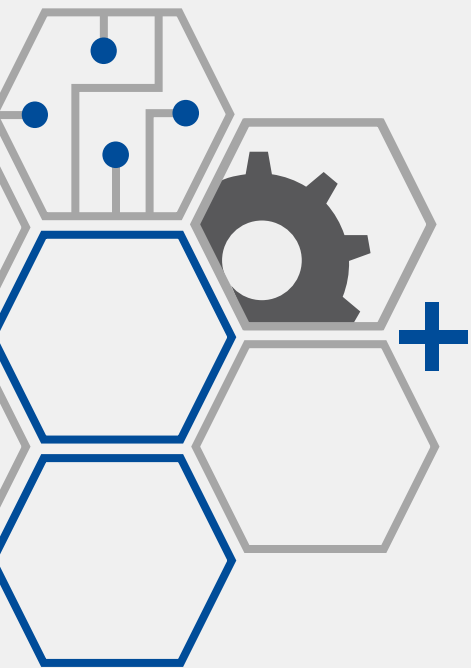
Coating plant



Anodization plant



NEW PRODUCTS, EQUIPMENT AND TECHNOLOGIES



Ultra-precise CNC for the Space Industry

Capacity Increase with **two new CNC's** for the aviation industry

High-precision CNC **automatically slotted and perforated honeycomb**

Implementation of the **Crush Core Technology** at EC

Standard Honeycombs made from: NOMEX®, KEVLAR®, Glass, Aluminum

Upon request Honeycomb made from: **Carbon Fiber, Ceramics, Titanium**

Glass fiber honeycomb with **PI resin coating**

EC-3D honeycomb available now in even more cell/density combinations

Honeycomb made from **1 mil KEVLAR® paper** and panels made thereof

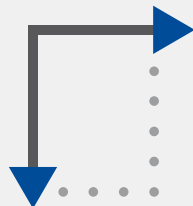
Aluminum honeycomb alloy **5052** and **5056** with PAA treatment & corrosion protection



1082

EMPLOYEES

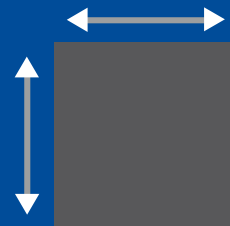
AVERAGE AGE 40 YEARS



76.000 m²

PRODUCTION AREA

EURO-COMPOSITES[®] GROUP



187.700 m²

TOTAL AREA

EURO-COMPOSITES[®] GROUP



IMPORTANT QUALIFICATIONS

AIRBUS GROUP
(Okt. 1985)

BOEING 8-124
(Spring 1987)

BOEING D1-4426

BOEING 5317

ISO 9001 &
SAE AS 9100

ISO 14001

NADCAP

IRIS

EASA PART 21G

EASA PART 145

EASA 21 PART J

| | |
|-------------|--|
| 1985 | Start of production at EURO-COMPOSITES® S.A. in Echternach, Luxembourg |
| 12.08.1985 | First honeycomb order by Henshall Bonded Assemblies, UK |
| 31.10.1985 | Qualification of honeycombs and of the production site according to LN 29970 by MBB GmbH, Germany and Airbus Group |
| Spring 1987 | Qualification of honeycombs and of the production site by Boeing, USA Qualification of the panel production by Buderus Sell, Germany |
| 24.03.1988 | Incorporation of EURO-COMPOSITES® Corporation in Culpeper |
| 01.01.2006 | Incorporation of the production site EURO-COMPOSITES® GmbH, Bittburg, Germany |
| 01.10.2007 | Our Center of Excellence resumes work in a separat building |
| 01.03.2009 | EC starts on a 2500m² production area (Hall 12) into the production of assemblies for aircraft interiors (structures like for example Galleys) |
| 01.03.2011 | Expansion of the production area from 7000m² to 9020m² at EURO-COMPOSITES® Corporation in Culpeper Virginia, USA |
| 01.04.2015 | Realization of new shipping area with larger storage capacity. The available area of former shipping department (Hall 4) is now used For production of railway components |
| 2018 | New Hall 4 + 5 at EURO-COMPOSITES® Corporation in Culpeper Virginia, USA (extension of honeycomb production and added value products) |
| 2018 | Start of production in Hall 6.1 for Space & Defence Products with our ultra-precise CNC-machine and one of the largest cleanrooms in Europe for space application. |
| 2019 | Qualification according to EASA 21 subpart J, EC becomes a design organization. EC is qualified by the Luxembourgian government as a NATO supplier |
| 2020 | Production facilities for the manufacturing of aluminum honeycomb in alloys 5052 and 5056 in Bittburg, Germany |