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LIGHTWEIGHT INTERIOR COMPOSITE PRODUCTS

Through Design, Manufacture and Certification.
We believe that by reducing the weight of aircraft and developing solutions for energy efficient products we can minimise the use of precious resources.

We do this because we’re passionate about reducing fuel use and emissions and we want to model what innovative, responsible manufacturing looks like.

With over 60 years experience in the design and manufacturer of high-quality, lightweight components for the transport industry, TRB is well placed to be able to consult, design and manufacture solutions for customers applications.

Our knowledge of composite materials along with our bonding and fabrication expertise allows us to carefully select the correct combinations of materials to provide the necessary results and performance for the application.

With facilities in the UK, Europe, and the USA, we are able to maintain quality and deliver finished products to an exceptionally high standard.
Design
At TRB, our team of design engineers develop concepts, detailed manufacturing drawings, FEA and physical testing. We specialise at making things lighter, stronger, and more efficient.

Bring us a high-level requirement, an initial design to improve or a structure that requires reverse engineering and we can consult, design, validate and build structures to meet your needs.

Manufacturing
With several decades of composite experience and world-class facilities, including clean rooms, TRB is perfectly positioned to cover all your manufacturing requirements from low volume components to large scale production.

Materials
Utilising our experience and knowledge in composite design, we will help to select the appropriate materials for your application.

Consideration will be given to weight, strength, durability, material performance (including FST) and manufacturing requirements. We will discuss these options with you so that we can arrive at the best solution for your project.

Certification
Part 21 approved (product supplied on EASA form 1)
SANDWICH PANELS & MATERIAL SPECIFICATION

Cellite™ 830, 840, 850 & 860 phenolic and epoxy systems have been specifically designed by TRB aerospace engineers to provide a lightweight, high-performance panel for aircraft interiors. The sandwich panels are approved to FAR/CS 25.853 and are suitable for decorative and nonstructural requirements right up to vestibule and aisle flooring.

We build high-performance tools, patterns and components using both thermoset and thermoplastic composite materials. We work with carbon, glass, and aramid fabrics in both woven and non-woven formats, as well as bio-based materials, including a “Bio” composite pre-impregnated system.

The resin system used is extracted from a natural waste bi-product, obtained from the manufacture of sugar, which is non-toxic and does not use volatile organic solvents.
PRODUCT RANGE & CAPABILITIES

- Monuments
- Lavatories
- Galleys
- Wardrobes
- Flooring
- Overhead Bins

- Partitions
- Dogboxes
- Mirrors
- Magazine Racks
- Cellite™ Sandwich Panels

- Design, manufacture and certification of cabin monuments
- Supply of single component manufacture to complete cabin refresh
- Alternative suppliers of OEM Products
- Part 21 approved (product supplied on EASA form 1)
RESEARCH DEVELOPMENT

TRB’s in-house test lab was established in 2018 and provides critical testing functionality for the Aerospace industry.

Mechanical testing capability is delivered by a 50kN universal testing machine used for climbing drum peel, 3 point and 4 point flexural, flatwise tensile, and lap shear testing.

The extensive fire and smoke testing capability includes apparatus to test to CS-25.853 parts I - vertical and 45° flame testing, part IV - Heat release testing, and part V - smoke density testing.

In conjunction with TRB’s experienced test engineers, these capabilities have provided a step change in TRB’s in-house capability for meeting customer requirements for material testing. The implementation of this facility shows that TRB is committed to developing testing capabilities to provide a market-leading service to customers.

- Cellite™ Phenolic Sandwich Panels
- Cellite™ Bio Sandwich Panels
- Recycled materials
- Weight reduction programmes
ACCREDITATIONS & WHO WE WORK WITH

Accreditations

- EASA part 21
- ISO 9001

Customers