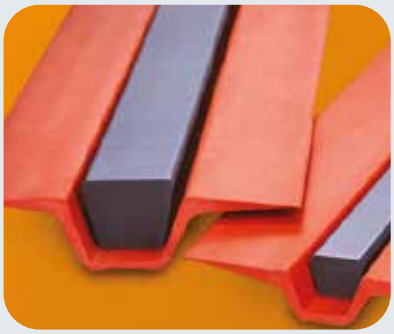
RUBBERCRAFT

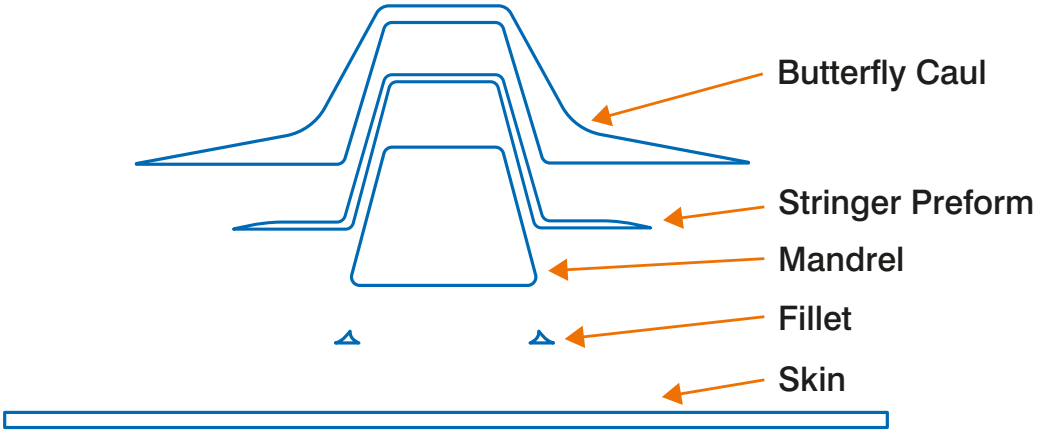
Cauls and Intensifiers for Composite Fabrication

Our elastomeric cauls and intensifiers are used to reduce per-ply thickness variations and to prevent the formation of wrinkles, bridging, and low-pressure areas. The ability to tailor the pressure distribution during consolidation results in the desired internal composite structure and surface finish. These tools are part of Rubbercraft's composite product line and are widely used on both commercial and military aircraft for the fabrication of complex composite structures.



- Nacelles
- Ailerons
- Empennage structures

Rubbercraft's products are fabricated from specifically formulated compounds tailored to exact requirements and are chosen by global composite manufacturers for whom performance and reliability are key.



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To view our extensive range of capabilities:
www.rubbercraft.com

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Cauls and Intensifiers for Composite Fabrication

Advantages – durable and flexible for optimum performance

When a durable yet flexible performance is required, Rubbercraft cauls and intensifiers can deliver.

Designed specifically to our customers' specifications to conform to contours and curvatures to ensure otherwise difficult-to-achieve tolerances and surface quality requirements. Rubbercraft cauls and intensifiers can be the critical component that enables radii and complex surface contours to be repeatable and at high production rates.

They are used in resin infusion processes, as well as in- and out-of-autoclave tape and pre-preg applications. Rubbercraft has a wide variety of elastomers to choose from, including more than 2,000 different elastomer formulations that are prepared in-house including Viton, Butyl, EPDM, and Silicon based formulations capable of withstanding repeated autoclave cycles at 190C/350F and pressures of 620 kPa/90 psi.

Custom designed - to offer a wide range of options

The cauls and intensifiers are custom designed for each application to achieve the right pressure distribution for the desired part geometry, for the cure conditions and other specific customer requirements.

Materials with various durometer, Coefficient of Thermal Expansion (CTE) and other mechanical properties may be selected based on the specific application.

The elastomeric tooling can be formed directly off hard tooling or dummy parts. Cauls and intensifiers can also be custom designed and fabricated to control part features more selectively. Such custom designs can specifically protect corners and intensify radii, or other features, to allow for consolidation support and for accommodating ply drop-off or material thickness variations.

Fluorinated polymer barrier layers can be bonded on the surfaces of the cauls and intensifiers for direct contact with resins and reinforcements can be added to increase durability and direct CTE.

Rubbercraft – advancing existing products and introducing new elastomeric solutions

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