



COMPOSITE BODY SOLUTIONS™ (CBS™)

THE PROVEN HIGH-PERFORMANCE STRUCTURAL REINFORCEMENT TECHNOLOGY.

Since 1998, L&L Products' Composite Body Solutions™ (CBS™) structural reinforcement technology improves vehicle body structure performance. Our technology enables weight reduction, while maintaining or improving vehicle durability, stiffness, and crashworthiness.

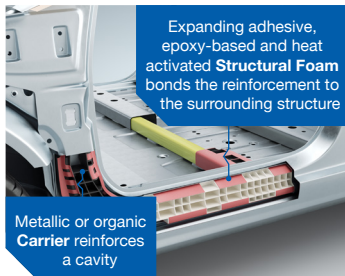
cbs.llproducts.com



COMPOSITE BODY SOLUTIONS™ (CBS™)

PERFORMANCE, MASS, PROCESS, AND COST OPTIMIZATION.

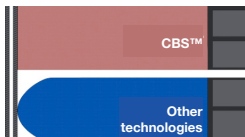
The L&L Products team uses its proven expertise with advanced CAD/CAE simulation to design a three-dimensional engineered part. The result is a structural insert that is dry-to-the-touch and ready to assemble into the body structure prior to cavity closure and E-coating.



LEADERS IN STRUCTURAL REINFORCEMENTS

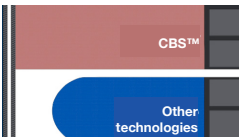
- Nearly 30 years of innovation in structural reinforcement
- 200 patents related to structural reinforcement
- CBS™ structural reinforcements are trusted and deployed worldwide

PROPER ADHESION FOR HIGH PERFORMANCE SYSTEMS



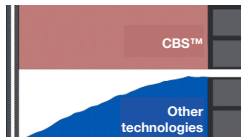
VERTICAL RISE

CBS™ structural foams expand in the direction of the adhesive.



GAP-JUMPING

CBS™ structural foams expand to meet the opposing substrate.



SAG RESISTANCE

CBS™ structural foams resist sagging caused by gravity. The foam also resists sliding without adhesion.

CBS™ FOR CRASH & NVH IMPROVEMENT



CRASH

During a crash event, L&L CBS™ structural inserts provide a desirable combination of section stability, load path transition, multi-axis load management, and energy absorption.



NVH IMPROVEMENT

Improved noise, vibration, and harshness (NVH) performance is achieved when L&L CBS™ structural reinforcement technology is integrated into the body structure.



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