



COMPOSITE BODY SOLUTIONS™ (CBS™)

STRONG, LIGHTWEIGHT STRUCTURAL REINFORCEMENTS FOR IMPACT RESISTANCE.

First introduced nearly 30 years ago, CBS™ structural reinforcements combine heat-activated structural adhesives (structural foams) with metal, thermoplastic, or thermoset carriers to create lightweight, strong structural reinforcements to improve crashworthiness. Using its proven expertise in advanced CAD/CAE modeling and simulation, the result is a custom-engineered three-dimensional structural insert that is dry to the touch and ready to assemble.

cbs.llproducts.com



COMPOSITE BODY SOLUTIONS™ (CBS™)

OPTIMIZED FOR CRASH PERFORMANCE.

During a crash event, CBS™ structural inserts provide a desirable combination of section stability, load path transition, multi-axis load management, and energy absorption. Our customers appreciate the high predictability of the proposed solutions, which are physically validated by our specialized CAE engineers.



CBS™ parts consist of a carrier and a structural foam.



Uncured foam



Cured foam

The heat-activated structural foam cures in the E-coat oven.

KEY PRODUCT ATTRIBUTES



PERFORMANCE

Allows a higher force to be passed through a section without metal modifications



STRUCTURAL INTEGRITY

Avoids/delays buckling in a boxed section



PROCESS

Makes it possible to connect the interior surfaces of a section without access holes

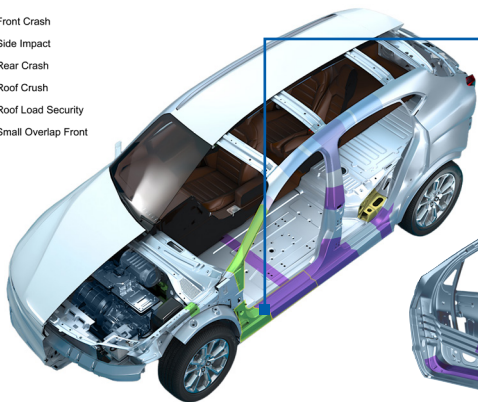


LIGHTWEIGHT

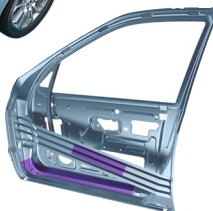
Enables light-weighting without compromising the performance (deletion of less effective reinforcements and overall thickness-reduction)

SIDE & ROOF CRASH APPLICATIONS

- Front Crash
- Side Impact
- Rear Crash
- Roof Crush
- Roof Load Security
- Small Overlap Front



CBS™ reinforces the vehicle during crash events.



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