CCS."



Composite Reinforcement with Ultra-High Strength-to-Weight Ratio

CCS[™] enables ultra-strong, lightweight structures at cost-competitive rates. The CCS[™] continuous fiber-reinforced materials can be used as a main structure, combined with sealants or structural adhesives to create a unified macrostructure, or combined with injection molding.

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L&L Products

CONTINUOUS COMPOSITE SYSTEMS[™] (CCS[™])

Enhanced Strength and Rigidity.

Our CCS[™] technology combines highly engineered sealants and adhesives with a fiber-reinforced composite carrier in a two-dimensional profile designed to provide strength, stiffness, and rigidity to a lightweight structure.

KEY PRODUCT ATTRIBUTES

- · Mass: 75% lighter than steel; 30% lighter than aluminum
- Corrosion resistant
- Nonconductive and insulating with a low coefficient of thermal expansion
- · Excellent structural properties
- · High predictability in energy management
- · Consistent quality and dimensional accuracy
- · Fire performance that meets UL 94 V-0 available

ENGINEERING EXPERTISE FOR EVERY APPLICATION



STRENGTH

Ultra-high strength-to-weight ratio

EXPERTISE



PROCESS

Seamless integration of adhesives



CAPABILITIES Advanced CAE capabilities



COMPETITIVE Competitive pricing





Products	Application type	Markets of interest
CCS™Co-Ex	Crash, NVH, tube reinforcement	Automotive
CCS™Set	Crash, stiffness, insulating, part consolidation	Automotive, CV, Industrial, Architectural
CCS [™] Hybrid	Crash, stiffness, metal replacement	Automotive, CV
CCS [™] Extreme	Crash, stiffness, wind turbine spar caps	Automotive, Aerospace, Energy



2022 Altair Enlighten Award for vehicle weight savings in composite seatback.

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ULTRA HIGH STRENGTH-TO-WEIGHT RATIO