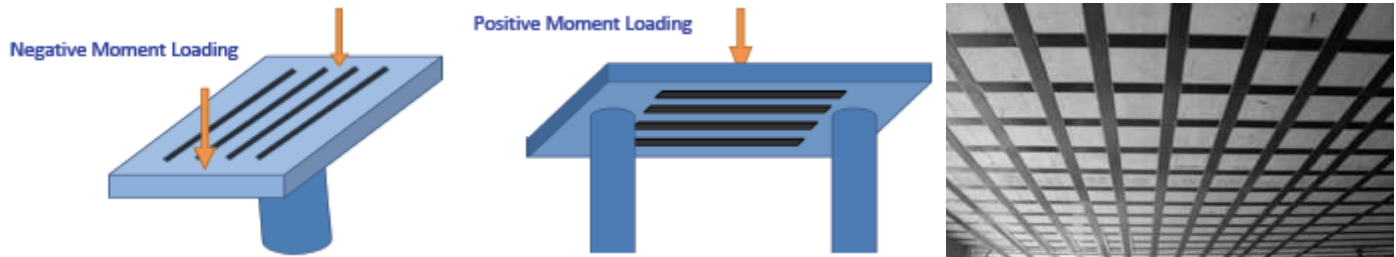


Carbon Fiber Reinforced Bars and Laminate for Structural Strengthening



Description

Glasforms CFRP products are carbon fiber reinforced polymer strips and bars used in a variety of industries for structural strengthening, engineered weight reduction, and repair applications. Glasforms CFRP products have excellent tensile strength, corrosive resistance, and light weight properties as well as high modulus of elasticity and excellent fatigue resistance. These products are used in the transportation, construction, marine, and infrastructure industries as well as the medical field for use as external fixators. Glasforms CFRP bars and laminates are available in a variety of sizes and can be shipped on reels in long continuous lengths.

Typical Applications

Glasforms CFRP strips are typically used in positive moment loading applications and are bonded in place. Glasforms CFRP bars are typically used in negative moment loading applications and are often bonded into grooves cut into the substrate using the near surface mounting (NSM) technique. Both the strips and the rods are flexible in the axial direction which allows them to be contoured to curved surfaces. Uses for Glasforms CFRP products range from floor strengthening and beam replacement to bridge repair to complete marine stringer systems. Glasforms CFRP products are also available sanded to provide a better bonding surface.

TECHNICAL DATA (typical)	CFRP BAR	CFRP LAMINATE
PRODUCT	Fully cured carbon fiber/epoxy rod	Fully cured carbon fiber/epoxy laminate
TENSILE STRENGTH	400,000 psi	400,000 psi
MODULUS OF ELASTICITY	22,500,000 psi	24,000,000 psi
ELONGATION AT BREAK	1.8%	1.7%
FIBER VOLUME CONTENT	>65%	>68%
TEMPERATURE RESISTANCE	300F	300F
SHELF LIFE	Unlimited (if UV protected)	Unlimited (if UV protected)
STANDARD SIZES	1/8 in. Diameter to 1/2 in. Diameter	.0472" x 1.97" • .0472" x 3.15" • .0472" x 3.94"

For additional information write or call:

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