CORNERSTONE ENGINEERING INC

Strong team. Smart solutions.

Fiber-Reinforced Polymers (FRP)

Carbon Fiber-Reinforced Polymers (**CFRP**) and Glass Fiber-Reinforced Polymers (**GFRP**) are used in structural engineering for their notable strength and light weight. The FRP strengthening method has been used by experts, Cornerstone Engineering among them, in the repair and rehabilitation of buildings, garages, bridges, and transportation structures. Cornerstone has **successfully completed over 75 strengthening projects** across every industry.

SLAB STRENGTHENING

BEAM STRENGTHENING

Trusted throughout the region as an expert in the assessment and repair/strengthening of existing structures. Cornerstone has specialized for over 15 years in utilizing the FRP as a cost effective and time saving, lightweight strengthening option for damaged or compromised structures. Our expertise in this area is second to none pairing skill and creativity to produce practical and long-lasting solutions.

Sample Strengthening Projects

- Norton Hospital Parking Garage; Louisville, KY
- Floyd Memorial Hospital Roof; New Albany, IN
- Eastern KY University Combs Hall Floor; Richmond, KY
- Jewish Hospital Slab Strengthening; Louisville, KY
- Nashville Water Works Pressure Main Rehab, TN
- Louisville MSD Decant Tanks, KY
- Louisville Water Company (LWC) - Zorn Avenue PS, KY

COLUMN STRENGTHENING

Advantages of FRP

- Low Installation Cost
- Time Saving over 50% or more
- Over 40% increase flexural capacity of members
- Provide additional shear and axial capacity upgrade.
- Provide Column confinement
- In-place strengthening with minimal to no disruption of ongoing operation
- Sleek, modern, lightweight & long-lasting solution

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