



Frequently Asked Questions

Q: Is Glass Fiber Reinforced Polymer, or GFRP rebar NEW?

A: No, fiberglass rebar has actually been around since WWII.

Q: Can you provide specific case studies showing successful long-term use of the product in various applications?

A: The performance of GFRP bars in two bridges more than a decade old are reviewed in the following report: [Long-Term Durability of GFRP Internal Reinforcement in Concrete Structures](#) Both bridges are located in the City of Rolla, Missouri: Walker Bridge (built in 1999), which consists of GFRP-reinforced concrete box culverts; and Southview Bridge (built in 2004), which incorporates GFRP bars in the post-tensioned concrete deck.

Q: How does LiteBar modulus of elasticity compare to steel?

A: One of the main differences between steel and GFRP is the relatively low modulus of elasticity of FRP rebar. It's an advantage over steel, since it is closer to the modulus of concrete. See the following report for additional details: [FRP Rebar in Slabs on Grade Benefit from Low Modulus of Elasticity](#)

Q: Can I bend LiteBar GFRP rebar?

A: LiteBar cannot be bent after the curing cycle. All bends need to be fabricated in the LiteBar manufacturing plant.

Q: Can I cut LiteBar GFRP rebar?

A: LiteBar can be cut with a manual rebar cutter, bolt cutters or grinder. However, a circular saw or cutting wheel is recommended.

Q: Is LiteBar ICC approved?

A: Yes, LiteBar is ICC approved. The LiteBar ICC report number is ESR4232.

Q: Does LiteBar require special handling or installation?

A: Handle with gloves to reduce irritation from nuisance dust, slivers or abrasion. Safety glasses and dust mask should be used when mechanically altering the product (cutting, crushing, grinding, milling or other similar dust generating process).

Q: Is LiteBar stronger than Grade 60 rebar?

A: Yes, ½" LiteBar has a tensile strength of 126ksi. ½" Grade 60 is 60ksi.

Q: What is the weight of a 20' stick of ½" LiteBar?

A: LiteBar weighs approximately 2.5lbs per stick

Q: Is LiteBar non-conductive?

A: LiteBar is both electrically and thermally non-conductive.

Q: Does LiteBar float when pouring concrete?

A: LiteBar is lighter than conventional steel and thus can, on occasion "float" when pouring certain concrete mixes of high slump.