

Sika CarboDur® Carbon Fiber Reinforced Polymer Strip

Sika CarboDur® is an external strengthening system that can be used on structural elements comprised of concrete, wood, or steel. The system consists of a pultruded, pre-cured carbon fiber reinforced polymer (CFRP) strip and a high modulus/high strength epoxy gel (Sikadur 30). The strip is 47 mils thick (1.2mm) and is available in 2, 3, and 4 inch (50, 80 and 100mm) widths. The tensile strength of the strip is 350 ksi with an elastic modulus of 22.5×10^6 psi. The strips are adhered using Sikadur 30 to structural elements to increase flexural capacity, fatigue resistance and reduce deflection.

The system has economic and performance characteristics which can benefit the contractor, engineer and owner. The contractor can reduce installation and surface preparation times because of the product's light weight and ease of installation. Because the material is non-corrosive and has an excellent strength to weight ratio, the engineer is provided with a fatigue resistant and strong product in a system that has minimal effect on dead weight or head room.

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