

# TECHNICAL INSTALLATION GUIDE

## CarbonBar™ Supports and Brackets

To ensure maximum structural integrity and bond strength, please follow these professional installation standards. Failure to follow these steps—specifically surface preparation and adhesive selection —may lead to less than optimal results.

### 1. Surface Preparation (Critical Step)

CarbonBar™ products are shipped with a protective nylon peel-ply layer to keep the bonding surface pristine during transit.

- **Peel to Reveal:** Immediately before installation, locate the edge of the **protective nylon layer** and peel it away from the CarbonBar™ surface.
- **Bonding Surface:** The adhesive must be applied directly to the freshly exposed carbon fiber surface.
- **Contamination Warning:** Do not touch the exposed bonding surface with bare hands after removing the nylon, as skin oils can interfere with the chemical bond.



#### Pro-Tip for customers:

**Note:** If the nylon layer is difficult to start, use a utility knife to gently score the very tip of the bar to catch the edge of the film.

## 2. Adhesive Recommendations

CF SPAN strongly recommends the use of high-performance **Structural Epoxy** or **Acrylic Adhesives**.

- **Top Choice:** We specifically recommend **CarbonBond** adhesives for their superior shear strength and compatibility with our carbon fiber matrix.
- **Application:** Apply a consistent bead of adhesive to the CarbonBar™ surface. Ensure full coverage to eliminate any voids between the reinforcement bar and the substrate.
- **Other Adhesives-** If using other Adhesives, please test on shop samples to ensure performance meets requirements.

## 3. Material-Specific Guidelines

Selecting the right thickness is vital for the safety of the finished installation.

- **Natural Stone:** For all Granite, Marble, and Quartzite applications, CF SPAN recommends the **0.4" CarbonBar™ product**.
- **Kerf/Slot Depth:** Ensure your kerf or routed slot is deep enough to allow the 0.4" bar to be fully submersed in adhesive for a "flush" finish.

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## 4. Safety & Handling

Carbon fiber is a high-performance material and must be handled with care.

- **Hand Protection: Always wear A9-rated cut-resistant gloves.** Carbon fiber can produce sharp slivers or burrs similar to steel or wood.
- **Finishing:** If the product requires custom sizing, use a Carbide-tipped blade. Any exposed edges can be smoothed with light sanding or sealed with a Polyurethane (PU) spray.
- **Dust Control:** Use a vacuum or wet-cutting method to minimize carbon dust during fabrication.

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### Technical Support

If you have questions regarding, please contact our technical team:

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