

FSR

CARBON FIBRE ROD
PULTRUDED CARBON FIBRE RODS FOR STRUCTURAL STRENGTHENING

2400 MPa TENSILE STRENGTH (MEAN)	150 GPa ELASTIC MODULUS	Min 65 % FIBRE CONTENT	Ø 6–12 mm DIAMETER RANGE
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DESCRIPTION

FSR rods are pultruded carbon fiber reinforced polymer (CFRP) laminates, designed for strengthening concrete, timber, masonry structures.

USES

- Structural strengthening of reinforced concrete, masonry, and timber elements.
- Increasing the load-bearing capacity of structures.
- Repairing and strengthening aging structures.
- Correcting structural design and construction defects.

CHARACTERISTICS / ADVANTAGES

- High strength with low weight.
- Non-corrosive and alkali-resistant.
- Excellent durability and fatigue resistance.
- Low aesthetic impact.

APPROVALS / STANDARDS

- Complies with relevant international standards for carbon fiber strengthening systems.

PRODUCT INFORMATION

PROPERTY	VALUE
Colour	Black
Diameter	6 / 8 / 10 / 12 mm
Packaging	6/12m or customized
Storage	Store in a dry place and without direct sunlight at a temperature between -5 °C and +35 °C
Shelf Life	2 years

TECHNICAL INFORMATION

PROPERTY	VALUE	STANDARD
Density	1.6 g/cm³	
Fibre Content	Min 65 %	

PROPERTY	VALUE	STANDARD
Dry Fibre Tensile Strength	5100 MPa	
Tensile Strength — Mean Value	2400 MPa	EN 2561
Tensile Strength — Design Value	1750 MPa	
Tensile Elastic Modulus	150 GPa	EN 2561
Elongation at Break	1.5 %	EN 2561
Glass Transition Temperature	Min 100 °C	

LIMITATIONS

- Design calculations must be certified by an independent licensed professional engineer.
- Protect the system from UV exposure.

HEALTH & SAFETY INFORMATION

- Refer to the most recent Safety Data Sheet for safe handling, storage, and disposal of the product.

LEGAL NOTES

The information and recommendations relating to the application and end-use of FIDSTRONG products are given in good faith based on our current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at www.fidstrong.com.