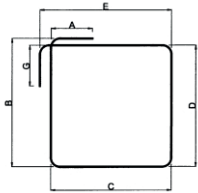
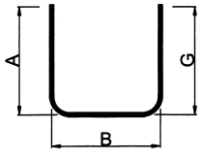


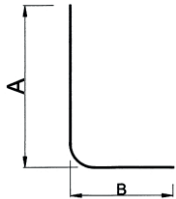
# FIBERGLASS BENT BAR



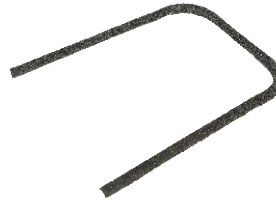
Diameter	B&D		C&E	
	MIN	MAX	MIN	MAX
#2 - 6,4 mm	8,8"-225 mm	73,8"-1876 mm	18,5"-470 mm	68,7"-1746 mm
#3 - 9,5 mm	8,8"-225 mm	73,8"-1876 mm	18,5"-470 mm	68,7"-1746 mm
#4 - 12,7 mm	10,1"-257 mm	75,1"-1908 mm	19,7"-502 mm	70"-1778 mm



Diameter	A&G	B	
	MAX	MIN	MAX
#2 - 6,4 mm	68,7"-1746 mm	8,8"-225 mm	73,8"-1876 mm
#3 - 9,5 mm	68,7"-1746 mm	8,8"-225 mm	73,8"-1876 mm
#4 - 12,7 mm	70"-1778 mm	10,1"-257 mm	75,1"-1908 mm

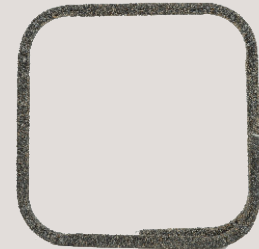


Diameter	A	B
	MAX	MAX
#2 - 6,4 mm	73,8"-1876 mm	68,7"-1746 mm
#3 - 9,5 mm	73,8"-1876 mm	68,7"-1746 mm
#4 - 12,7 mm	75,1"-1908 mm	70"-1778 mm



## WHY BINEVIR FIBERGLASS BENT BAR?

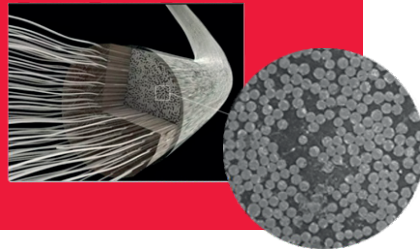
- Impervious to chloride ion and chemical attack.
- Tensile strength is greater than steel.
- Light weight - one-fourth to one-fifth the weight of steel reinforcing bar.
- Transparent to magnetic fields, radio frequencies (glass FRP only).
- Thermally and electrically nonconductive (glass FRP only).
- Less concrete cover is possible.  
Admixtures to reduce corrosion are not needed.
- High fatigue endurance.
- Easily "consumed" by excavation equipment when used in temporary structures.
- In corrosive environment, service life much greater than that of steel.
- Better field handling damage tolerance than epoxy coated steel and no touch-ups required.



## WHAT IS FIBERGLASS?

### GLASS FIBER REINFORCED POLYMER-GFRP

Glass fibers provide high strength, while the polymer transfers the load from filament to filament, and protects the fibers from chemical attack.



# FIBERGLASS BENT BAR

Rust free



4x lighter than steel



Lower installation cost



2x stronger than steel



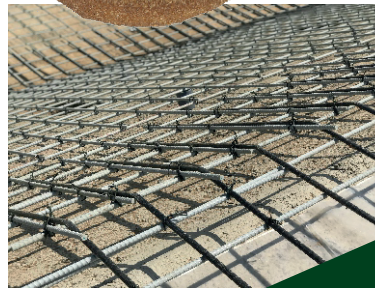
Easier to haul



Binevir fiberglass bent bar is a sand-coated structural reinforcing rod made from a combination of high quality fiberglass roving and resin matrix. Sand-coated surface provides high concrete bonding while fiberglass filaments impart tensile strength. Optionally, it is possible to produce various shapes and sizes. Bent bars can be used separately or in complex structures.

## FIBERGLASS BAR MECHANICAL PROPERTIES

Bar Designation No.	#2	#3	#4
Breaking load, kip	9,2	15,9	26,8
Tensile strength, ksi	159,5		
Tensile modulus of elasticity, ksi	6900		
Bond Strength, ksi	No less than 1,1		
Transverse Shear Strength, ksi	No less than 22,4		



## Application:

- **Non Structural**
- **Residential**
  - Driveways
  - Sidewalks
  - Pool Decks
  - Basement floors and walls
  - Footing
  - Concrete masonry
  - ICF construction
- **Commercial**
  - Parking slabs
  - Warehouse floors
  - Agricultural slabs
  - Loading docks
  - Architectural precast
  - Truck aprons
  - Pour back slabs
- **Structural**
  - Bridges
  - Beams
  - Columns
  - Seawalls
  - Slabs
  - Piles



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