

HKR INC.

GFRP Rebar Product Datasheet

Glass Fiber Reinforced Polymer Reinforcement Bars

COMPANY INFORMATION

Company: HKR INC.

Industry: Composite Materials Manufacturing

Location: Georgetown, Guyana

Website: www.hkgfrp.com

Email: hkrinc19@gmail.com

PRODUCT OVERVIEW

HKR INC. GFRP Rebar is a high-performance Glass Fiber Reinforced Polymer reinforcement bar engineered for use in concrete structures exposed to corrosive, marine, coastal, industrial, and chemically aggressive environments.

Unlike conventional steel reinforcement, GFRP reinforcement does not rust or corrode, making it ideal for long-life infrastructure projects where durability and reduced lifecycle cost are critical.

HKR GFRP Rebar is designed for applications in:

- Bridges & highways
 - Marine & coastal infrastructure
 - Seawalls & drainage systems
 - Industrial facilities
 - Water treatment plants
 - Oil & gas infrastructure
 - Commercial & residential construction
 - Utility structures
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PRODUCT FEATURES

Key Benefits

- Corrosion resistant
- Non-conductive
- Non-magnetic
- Lightweight (up to 75% lighter than steel)
- High tensile strength
- Reduced transportation and handling cost
- Lower lifecycle maintenance expense
- Ideal for marine and humid environments
- Extended service life

TECHNICAL SPECIFICATIONS

Property	Typical Value
Material Type	Glass Fiber Reinforced Polymer
Resin System	Vinyl Ester / Epoxy
Surface Finish	Sand-coated / Helically wrapped
Density	Approx. 2.0 g/cm ³
Tensile Strength	800–1200 MPa
Elastic Modulus	45–60 GPa
Thermal Conductivity	Low
Electrical Conductivity	Non-conductive
Magnetic Properties	Non-magnetic
Corrosion Resistance	Excellent
Water Resistance	Excellent
Alkali Resistance	High

STANDARD BAR SIZES

Nominal Diameter	Metric Size	Approx. Weight
6 mm	#2	0.06 kg/m
10 mm	#3	0.12 kg/m
12 mm	#4	0.18 kg/m
16 mm	#5	0.32 kg/m
20 mm	#6	0.50 kg/m
25 mm	#8	0.78 kg/m
32 mm	#10	1.25 kg/m

Custom sizes available upon request.

STANDARD LENGTHS

- 6 meter
 - 12 meter
 - Custom cut lengths available
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APPLICATIONS

Infrastructure

- Bridges
- Highways
- Culverts
- Retaining walls
- Drainage systems

Marine & Coastal

- Seawalls
- Docks
- Jetties
- Ports
- Coastal foundations

Industrial

- Chemical plants
- Utility structures
- Industrial slabs
- Water treatment facilities

Oil & Gas

- Pipe supports
 - Offshore support structures
 - Process facilities
 - Corrosion-prone environments
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STORAGE & HANDLING

- Store on flat supports
 - Avoid impact damage during handling
 - Use nylon or non-metallic lifting slings
 - Protect from prolonged UV exposure during long-term storage
 - Follow project engineer installation procedures
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INSTALLATION NOTES

- GFRP bars should not be field bent unless specifically manufactured for bending
 - Use approved cutting tools for trimming
 - Follow engineering design specifications and applicable standards
 - Proper cover requirements should be maintained
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QUALITY & CERTIFICATION TARGETS

HKR INC. targets compliance with:

- ASTM D7957
 - ASTM D7205
 - ISO 9001:2015
 - Applicable regional and project specifications
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PACKAGING

Products are available in:

- Bundles
 - Pallets
 - Project-specific packaging
 - Export-ready packaging
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CUSTOM FABRICATION

HKR INC. can provide:

- Bent shapes
 - Stirrups
 - U-bars
 - Custom reinforcement configurations
 - Project-specific reinforcement packages
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SAFETY INFORMATION

Use proper PPE during cutting and handling operations.

Recommended PPE:

- Safety glasses
 - Gloves
 - Dust protection when cutting
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CONTACT INFORMATION

HKR INC.

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For technical support, quotations, distributor opportunities, or engineering inquiries, contact HKR INC.

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