## Horse HM-RB

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## Unidirectional Carbon Fiber Rebar

Description	The Horse HM-RB Unidirectional Carbon Fiber Rebar is a product with excellent strength and modulus characteristics, designed for structural strengthening purposes. It is applied to the structure as external reinforcement and bonded using the HM-120CP epoxy resin as the adhesive.				
Application Range	Load Increase:	<ul> <li>* Increased live loads in warehouses</li> <li>* Increased traffic volumes on bridges</li> <li>* Installation of heavy machinery in industrial buildings</li> <li>* Vibrating structures</li> <li>* Changes of building utilization</li> </ul>			
	Seismic Reinforcement:	<ul> <li>* Concrete column wrapping</li> <li>* Beam strengthening</li> <li>* Wall strengthening</li> <li>* Slab strengthening</li> <li>* Masonry walls reinforcement</li> </ul>			
	Damage to Structural Members	<ul> <li>* Aging of construction materials</li> <li>* Fire</li> <li>* Vehicle impact</li> <li>* Removal of walls or columns</li> <li>* Removal of slab sections for openings</li> <li>* Reduce the deformation</li> <li>* Reduce the stress of the original structure</li> <li>* The crack reinforcement</li> </ul>			
	Structural Changes:				
	Structural Improvements				
	Design or Construction Defects	* Lack of reinforcing bars * Lack of member cross-section			
	* Flexible and light * Long shelf life and * High temperature * Resistant to acid, * Seismic resistance * Environmentally fr * Suitable for shear,	weight for easy installation resistance to aging resistance alkali, and salt iendly confinement, and flexural strengthening			
Horse Manufacturer's Advantage	Aviation Grade Yarn	Utilizes imported, aviation grade raw materials for excellent quality and stable performance.			
	World-Class Production Line	Our production line features an intelligent machine system imported from Germany. Our machines utilize point-to-point, active, weft insertion to prevent damage to the yarn during weaving. This provides excellent "flatness," enabling easy epoxy penetration and achieving high bonding strength.			
	Patented Tension Controlling System	Our in-house tension controlling system ensures consistent ension throughout the entire process, minimizing dispersion.			
	Large Output and Timely Delivery	Dur facility boasts an annual output of 100 thousand meters, ensuring ample supply and timely delivery.			
Packaging Information	Product Design	* The rebar is rolled into a ring shape. * It utilizes a belt for binding.			
	Length Options	* Available lengths include 1m or 3m, or per specific sizing			
	<b>Diameter Options</b>	* Available in diameters of 8mm, 10mm, 12mm, and 16mm			
	Basic Product Infe	ormation			
Model Name Appearance Length Diameter Shelf Life Storage Conditions	HM-RB Black Laminate 1m, 3m or Customized 8mm, 10mm, 12mm, 16mm, or Customized 50 years Store in dry conditions at 40°F to 95°F (4°C to 35°C)				
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Characteristic Tensile Strength		Cross-Sectional Yield Strength (kN)				
Mogn Value	3 19×1005 psi ( 2200 MPg)	8mm	10mm	12mm	16mm	
Desian Value	2.90×10/5 psi ( 2200 MPa)	101	157	226	442	
	C	haracteristic Elastic	c Modulus			
Mean Value Design Value Elongation Thickness Temperature Resistance Fiber volume content Density	2.39×10^7 psi ( 1.65×10^5 MPa 2.32×10^7 psi ( 1.6×10^5 MPa) 1.80% 1.2mm >300°F (>150°C) ≥65% 0.058 lbs./in3 (1.6g/cm3)	)				
Construction Process						
Setting Out:						
* Follow the design specifications for proper positioning.						
Surface Preparation:						
* Polish the concrete surface to remove any paint and use compressed air to blow away any floating dust.						
Ingredient Preparation:						
* Thoroughly mix components A and B in the packaging bucket, ensuring a weight ratio of A:B = 2:1.						
Installation:						
* Apply the mixed glue compound evenly onto the surface of the carbon fiber rebar, taking care to avoid the formation of bubbles.						
Anchoring:						
* Place the carbon fiber r * Remove any excess glue	rebar onto the concrete surface e compound and use a steel fra	and secure it with mework for additi	n a steel strip. onal reinforcement.			
Maintenance:						
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