

Horse HM-GFJS

Bidirectional Glass Fiber Jacketing Plate

Description HM-GFJS is a high strength, high modulus carbon fiber jacketing system for column, beam strengthening. It can be used underwater, and application together with HM-MT030 waterproof mortar.

Application Range

- **Load Increase**
 - Increased live loads in warehouses
 - Increased traffic volumes on bridges
 - Installation of heavy machinery in industrial buildings
 - Vibrating structures
 - Changes of building utilization
- **Seismic Reinforcement**
 - Concrete column wrapping, beam strengthening, wall strengthening
 - Masonry walls reinforcement
- **Damage to Structural Parts**
 - Aging of construction materials
 - Fire
 - Vehicle impact
- **Change of Structural System**
 - Removal of walls or columns
 - Removal of slab sections for openings
- **Design or Construction Defects**
 - Lack of reinforcing bars
 - Lack of member cross section
- **Improve Structural State**
 - Reduce the deformation
 - Reduce the stress of the original structure
 - The crack reinforcement

Product Characteristic	<ul style="list-style-type: none">■ High strength, high toughness, high modulus■ Light self weight, easy to install■ Long shelf life and aging resistance■ High temperature resistance■ Acid, alkali & salt resistance■ Seismic resistance■ Environmental-friendly■ Can be used underwater
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Horse Advantage	<ul style="list-style-type: none">■ Aviation Grade Yarn Imported aviation grade raw material, excellent quality and stable performance. ■ World Leading Production Line Germany imported intelligent production line. Point to point active weft insertion. No damage to the yarn during the weaving process. excellent flatness enable epoxy easy to penetrate, hence high bonding strength can be achieved ■ Patented Tension Controlling System Our own developed whole process tension controlling
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Package	This product is rolled into a ring and uses a belt to bind. The length, width, thickness can be customized according to the request.
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Basic Information

Model	HM-GFJS
Appreance	Yellow laminate
Length	Customized
Width	Regular width is 1m, 2m, 3m other width can be

Thickness	From 2mm - 6mm
Shelf Life	50 years
Storage Conditions	Store in dry conditions at 40°F to 95°F (4°C to 35°C)
Braiding	0°-90° (Bidirectional)

Performance indexes

Tensile Strength	
Horizontal	≥200MPa
Vertical	≥200MPa
Bending Strength	
Horizontal	≥200MPa
Vertical	≥200MPa
Bending Elastic Modulus	
Horizontal	≥10GPa
Vertical	≥10GPa
Water absorption	< 0.7%
Temperature Resistance	>70°C
Fiber volume content	≥55%
Density	1.8g/cm ³

Construction Process

1. Setting out according to designing;
2. Polish the surface of concrete surface to remove painting of the surface, blow out the floating dust with compressed air;

3. Put the jacketing material according to the design position and fixing with the provide accerssories.
 4. Seal the bottom with the sealing band, ensure there is no leaking.
 5. Mix the motar and filling the gap between jacketing and structure.
 6. Maintenance: conservation time should be no less than 24 hours at room temperature.
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Points for Attention

The construction workers should take necessary protective measures such as wearing masks, gloves, goggles etc. Pay attention to fire prevention and maintain good ventilation on site.

Carbon fiber material is conductive, be careful to the electrical equipments around.

For more information, please visit our website at www.horseen.com



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