Horse HM-CFJS

Bidirectional Carbon Fiber Jacketing Plate

Description

HM-CFJS 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 motar.

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 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

Horse Advantage

Aviation Grade Yarn

Japan 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 Controling System

Our own developed whole process tension controling

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.

Basic Information

Model **HM-CFJS**

Black laminate **Appreance**

Length Customized

Regular width is 1m, 2m, 3m other width can be Width



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	≥550MPa
Vertical	≥550MPa
Bending Strength	
Horizontal	≥550MPa
Vertical	≥550MPa
Bending Elastic Modulus	
Horizontal	≥25GPa
Vertical	≥25GPa
Water absorbation	< 0.7%
Temperature Resistance	>70°C
Fiber volume content	≥55%
Density	1.6g/cm3

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.

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







