HORSE CONSTRUCTION

HM-3.0T
Carbon Fiber Laminate for structural strengthening

Description

HM-3.0T is a pultruded carbon fiber reinforce polymer(CFRP) laminated designed for strengthening concrete ,timer and masonry structures. HM-3.0T is bonding onto the structure as external reinforcement using HM-160 epoxy resin as the adheisve.

Where to Use

Load Increase

- Increased live loads in warehouses
- Increased traffic volumes on bridges
- Installation of heavy machinery in industrial building
- Vibrating structures
- Changes of building utilization

Seismic Strengthening

- Column wrapping
- Masonry walls

Damage to Structural Parts

- Aging of construction materials
- Vehicle impact
- Fire
- Blast impact

Change in Structural Parts

- Removing of wall or columns
- Removal of slab section for openings

Design or Construction Defects

- Insufficient reinforcements
- Insufficient structural depth

Advantages

- Approved by GB50367-2013/GB50728-2011/GB50550-2010
- High Strength
- Light Weight
- Non-corrosive
- Alkali Resistant

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Typical Data

Base	
Shelf Life	Unlimited(no exposure to directsunlight)
Color	Black

Tensile Strength	
Mean Value	4.49 x 10^5psi(3100MPa)
Design Value	3.47 x 10^5psi(2400MPa)
Modulus Of Elasticity	
Mean Value	23.9 x 10^6psi(165,000MPa)
Design Value	23.2 x 10^6psi(160,000MPa)
Elongation at Break	1.7%
Thickness	3.0mm
Temperature Resistance	> 300°F(> 150C°)
Fiber Volumetric Content	> 68%
Density	0.058 lbs./in^3 (1.6g/cm^3)

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