HORSE CONSTRUCTION

HM-60
Carbon Fiber Sheet for structural strengthening

Description	HM-60 is high strength, unidirectional carbon fiber fabric. Material is laminated using HM-180C3P epoxy to form a carbon fiber reinforced polymer(CFRP) used to strengthen structural concrete elements.
Where to Use	**Load Increase** ■ Increased live loads ■ 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 ■ Used for shear , confinement or flexural assembly ■ Flexible, can be wrapped around complex geometries ■ High Strength ■ Light Weight ■ Non-corrosive ■ Alkali Resistant ■ Low aesthetic impact

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Typical Data

Storage Conditions	Store dry at 40°-95°F（4°-35C°）	
Shelf Life	10 years	
Color	Black	
Primary Fiber Direction	0°（unidirectional）	
Areal Weight	HM-60	17.52 oz./sq.yd.(600g/m^2)

Typical Fiber Properties

Dry Fiber Typical Properities	
Standard Value Of Tensile Strength	7.1 x 10^5psi(4900MPa)
Tensile Elastic Modulus	34 x 10^5psi(235000MPa)
Elongation	1.7%

Laminate Fiber Typical Properties		
Standard Value Of Tensile Strength	5.51 x 10^5psi(3800MPa)	
Tensile Elastic Modulus	34 x 10^5psi(235000MPa)	
Elongation	1.7%	
With Concrete	Concrete Damaged:≥2.5MPa	
Density	0.065lbs.in^3(1.8g/cc)	
Nominal Fiber Thickness	HM-60	0.0130in.(0.334mm)

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