HORSE CONSTRUCTION MORSE



HM-1.4T

Carbon Fiber Laminate for structural strengthening

Description	HM-1.4T is a pultruded carbon fiber reinforce polymer(CFRP) laminated designed for strengthening concrete ,timer and masonry structures. HM-1.4T 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

HORSE CONSTRUCTION MESE



Typical Data

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

Tensile Strength		
Mean Value	$4.49 \times 10^5 \text{psi}(3100\text{MPa})$	
Design Value	$3.76 \times 10^5 \text{psi}(2600\text{MPa})$	
Modulus Of Elasticity		
Mean Value	$23.9 \times 10^6 \text{psi}(165,000 \text{MPa})$	
Design Value	$23.2 \times 10^6 \text{psi}(160,000 \text{MPa})$	
Elongation at Break	1.7%	
Thickness	1.4mm	
Temperature Resistance	> 300°F(> 150C°)	
Fiber Volumetric Content	> 68%	
Density	0.058 lbs./in ³ (1.6g/cm ³)	