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 masonr structures. HM-1.4T is bonding onto the structure as external reinforcement using HM-120CP epoxy resin as the adhesive.
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/GB50550-201
	High Strength
	Light Weight
	Non-corrosive
	Alkali Resistant

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Typical Data	
BASE	
Shelf Life	Unlimited(no exposure to direct sunlight)
Color	Black
Tensile Strength	
Mean Value	4.49 x 10 ⁵ psi(3100MPa)
Design Value	406 x 10 ⁵ psi(2800MPa)
Modulus of Elasticity	
Mean Value	23.9 x 10 ⁶ psi(165,000MPa)
Design Value	23.2 x 10 ⁶ psi(160,000MPa)
Elongation at Break	1.7%
Thickness	1.4mm
Temperature Resistance	>300°F(>150°C)
Fiber Volumetric Content	>68%
Density	$0.058 \text{ lbs./in}^3 (1.6 \text{g/cm}^3)$

Packing

Available carton package at 10sqm/carton. Type 50mm width, 2rolls per carton; Type 100mm width, 1 roll per carton.

Transportation and storage

This product should be stored in dry, cool and well-ventilated environment without rain, exposure or impact with sharp objects;

Carbon fiber materials transport and storage shall not be squeezed to avoid carbon fiber damage, or direct sunlight and rain