HORSE CONSTRUCTION MORSE



HM-1.2T

Carbon Fiber Laminate for structural strengthening

Description

HM-1.2T is a pultruded carbon fiber reinforce polymer(CFRP) laminated designed for strengthening concrete ,timer and masonry structures. HM-1.2T 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/GB50550-2010 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	$4.49 \times 10^5 \text{psi}(3100\text{MPa})$
Design Value	$406 \times 10^5 \text{psi}(2800\text{MPa})$
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	1.2mm
Temperature Resistance	>300°F(>150°C)
Fiber Volumetric Content	>68%
Density	0.058 lbs./in ³ (1.6g/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