HITEXBAU GmbH

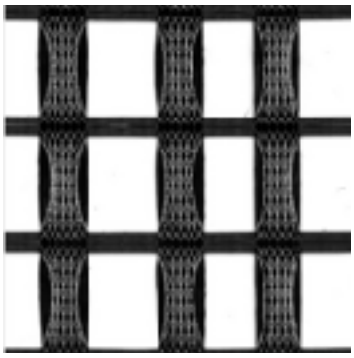
Innovative Carbon Grid Reinforcement

HTC Typ 1

Carbon Grid Reinforcement

Heavy Structural Grid | High tensile capacity | Corrosion-free

Overview



High-capacity bidirectional carbon fiber grid made of 48K rovings (wrapped construction) in both directions.
Designed for TRC applications requiring very high tensile performance in the primary load direction.
Suitable for structural strengthening, bridge components, infrastructure elements, edge beams, and high-load applications.

Technical Data

Property	Value	Unit	Test method
Material (lengthwise)	Carbon 48K-wrapped	-	-
Material (crosswise)	Carbon 48K-wrapped	-	-
Density of carbon fiber	1.78	g/cm³	-
Binding thread	PES 167 dtex	-	-
Weight (uncoated / coated) approx.	560 / 730	g/m²	-
Threads per meter (L / C)	130 / 44	threads/m	-
Cross-sectional area (L / C)	233 / 79	mm²/m	-
Grid opening	49 × 33 & 25	mm	
Tensile strength (L / C)	688 / 227	kN/m	DIN EN ISO 3341
Tensile strength (fiber) (L / C)	2956 / 2871	N/mm²	DIN EN ISO 3341
Strain at break (L / C)	1.40 / 1.40	%	DIN EN ISO 3341
Impregnation / Coating	Acrylate	-	-
Max. service temperature	80	°C	-
Roll width	300	cm	-
Roll length	Custom	-	-