

HTC 18/18-40

Carbon Grid Reinforcement

Lightweight | Fine Grid | Service temperature up to 40 °C | Corrosion-free

Overview

Bidirectional carbon fiber grid made of 12K rovings.

Designed for textile-reinforced concrete (TRC) applications requiring fine crack control and thin-section reinforcement.

Suitable for façade elements, thin overlays, prefabricated components, and repair systems operating up to 40 °C.



Technical Data

Property	Value	Unit	Test method
Material (lengthwise)	Carbon 12K - wrapped	-	-
Material (crosswise)	Carbon 12K	-	-
Density of carbon fiber	1.78	g/cm ³	-
Binding thread	PES 167 dtex	-	-
Weight (uncoated / coated) approx.	84 / 102	g/m ²	-
Threads per meter (L / C)	47 / 50	threads/m	-
Cross-sectional area (L / C)	21.0 / 22.5	mm ² /m	-
Grid opening	18 × 18	mm	-
Tensile strength (L / C)	57 / 72	kN/m	DIN EN ISO 3341
Tensile strength (fiber) (L / C)	2700 / 3200	N/mm ²	DIN EN ISO 3341
Strain at break (L / C)	1.47 / 1.34	%	DIN EN ISO 3341
Impregnation / Coating	Acrylate	-	-
Max. service temperature	40	°C	-
Roll width	300	cm	-
Roll length	Custom	-	-

DISCLAIMER: Technical data is based on current product specifications. Users are responsible for verifying suitability for the intended application. Product specifications may change without notice. Current Terms and Conditions apply.