

HTC 21/21-40

Carbon Grid Reinforcement

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

Overview

Bidirectional carbon fiber grid made of 48K rovings (knitted in lengthwise direction).

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

Particularly suitable for façade elements, thin overlays, precast components, and strengthening systems.



Technical Data

Property	Value	Unit	Test method
Material (lengthwise)	Carbon 48K - knitted	-	-
Material (crosswise)	Carbon 48K	-	-
Density of carbon fiber	1.78	g/cm ³	-
Binding thread	PES 167 dtex	-	-
Weight (uncoated / coated) approx.	255 / 295	g/m ²	-
Threads per meter (L / C)	39 / 39	threads/m	-
Cross-sectional area (L / C)	71 / 71	mm ² /m	-
Grid opening	22 × 22	mm	-
Tensile strength (L / C)	180 / 202	kN/m	DIN EN ISO 3341
Tensile strength (fiber) (L / C)	2531 / 2841	N/mm ²	DIN EN ISO 3341
Strain at break (L / C)	1.71 / 1.47	%	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.