GLASSFIBER PRODUKTER

Strong and long lasting

Fiberglass structural profiles

High strength

Fiberglass offers high strength while remaining lightweight, making it a practical choice for various load-bearing applications.

No corrosion

Fiberglass is inherently corrosion-resistant, allowing it to retain strength and durability even in harsh environments.

Easy to use

The lightweight and corrosion-resistant nature of fiberglass make it easy to transport, cut on-site, and install.

Glassfiber Produkter AS offers a diverse range of high-quality fiberglass structural profiles, ideal for a wide variety of applications requiring durability and strength.

Our profiles are designed to meet the following industry standards for quality and safety:

- **EN 13706** – European standard for structural profiles
- **EN 14122** – European standard for access structures
- **DIN 18820** – Reduction factors for long term loading
- Eurocomp design guide

We maintain a large inventory of 6-meter full-length profiles, which can be cut to your specified dimensions.

GLASSFIBER PRODUKTER

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Mechanical properties

Fiberglass structural profiles from Glassfiber Produkter AS comply with strict performance and quality standards.

Refer to the table below for the minimum mechanical properties.

Mechanical properties

	Property	Unit	Test method	Minimum property	
				E23 grade	Test results
1.1	Full section test	Gpa	Annex D, EN 13706-2	23	
1.2	Tension modules - axial	Gpa	EN ISO 527-4	23	
	Tension modules	Gpa	EN ISO 527-4		30.6
1.3	Tension modules - transverse	Gpa	EN ISO 527-4	7	
1.4	Tension strength - axial	Mpa	EN ISO 527-4	240	
	Tension strength	Mpa	EN ISO 527-4		550
1.5	Tension strength - transverse	Mpa	EN ISO 527-4	50	
1.6	Pin-bearing strength - axial	Mpa	Annex D, EN 13706-2	150	
1.7	Pin-bearing strength - transverse	Mpa	Annex D, EN 13706-2	70	
1.8	Flexural strength - axial	Mpa	EN ISO 14125	240	
	Flexural strength	Mpa	EN ISO 14125		501
1.9	Flexural strength - transverse	Mpa	EN ISO 14125	100	
1.10	Interlaminar shear strength - axial	Mpa	EN ISO 14125	25	

Physical properties

Property	Method	Unit	Typical value	
Density	ISO 1183	g/cm²	1.7-2.0	1.9
Barcol hardness	ASTM D2583	Barcol	50	
Water absorption	ISO 62	%	0.7max	
Elextrical strength	DIN 53481	KV/mm	5-10	
Coefficient of linear thermal expansion	BS 6319	$10^{-6}/K$	6-10	
Heat distortion temperature	ISO 75	°C	>150	>200

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