Technical Data Sheet KOREFIB® Rebar 5 mm
TL-KOREFIB-REBAR-5-2025-01

Manufacturer:
KOREFIB s.r.o.
Borová 581/7, Bludovice, 736 01 Havířov
Company ID: 17587921 VAT ID: CZ17587921

Product Description:
KOREFIB® Rebar 5 mm is a composite reinforcing bar made of glass fibres bonded with a heat-cured epoxy resin. The surface of the bar is coated with a layer of silica sand, which improves bond with concrete.
The bars are intended primarily for non-structural reinforcement of concrete structures, walls, slabs and floors to limit shrinkage. They are suitable for parts of structures exposed to an increased risk of corrosion or an aggressive environment, such as wastewater treatment plants, silage pits, and chemical, food and agricultural facilities.

Property	Value	Unit	Test Method
Nominal diameter	5	mm	ISO 10406-1, kap. 5
Tensile strength f_u,c	1 459	MPa	ISO 10406-1, kap. 6
Elongation at break ε_u	3,33	%	ISO 10406-1, kap. 6
Modulus of elasticity E_m	46,9	GPa	ISO 10406-1, kap. 6.4.4
Tensile stiffness E_a	866	kN	ISO 10406-1, kap. 6.4.4
Bond strength with concrete	13,7	N/mm²	ISO 10406-1, čl. 7
Tensile fatigue strength – level 1 for 10^3 cycles	1 739 / 1 902 / 1 280 / 1 261 / 4 753	cycles	ISO 10406-1, čl. 10
Shear strength	236	N/mm²	ISO 10406-1, kap. 13
Fibre mass content	80,9	%	ČSN EN ISO 1172

Additional Technical Data:

Parameter	Value	Unit	Note
Fibre type	ECR glass fibre		
Binder	epoxy resin		
Surface treatment	Silica sand		
Delivery form	Bars / coils		

Declaration:
The KOREFIB® Rebar product has been verified by tests performed by the TZÚS Praha, s.p. testing laboratory, Brno branch. Selected technical properties of the product were determined in accordance with ISO 10406-1 and ČSN EN ISO 1172.

The stated technical properties are based on test results and manufacturer's documentation. The values apply to the tested product and the stated test conditions. Use of the product in a specific structure must be verified according to the required reinforcement function, structural design, loading and conditions of use.

Havířov, 25 September 2025

KOREFIB s.r.o.
(razítko a podpis oprávněné osoby)