



Wiking® Super B Rebar

Wiking® Super B Rebar consists of basalt fibre reinforcement bars developed as a corrosion-free and lightweight alternative to steel in concrete. The bars are made from 100% natural basalt, melted at approx. 1600 °C and extruded into continuous filaments, which are then bundled and coated with resin for maximum strength and adhesion.

Basalt fibres are four to six times lighter than steel and have a tensile strength exceeding conventional reinforcement materials – enabling slimmer structures, reduced material consumption, and longer service life.

Benefits and Properties

- High tensile strength and low weight
- Corrosion-free and chemical-resistant
- Thermal stability up to +100 °C
- Non-flameable
- Environmentally friendly with low energy consumption during production

General Applications

- Concrete reinforcement in bridges, dams, and marine structures
- Foundations and precast concrete elements
- Aggressive environments with salt, moisture, or chemicals
- Infrastructure projects where long service life is essential

Specifications – Wiking® Super B Rebar

Wiking® Super B Rebar is manufactured from continuous basalt fibres, bound with epoxy or polymers and sand-coated for optimal adhesion to concrete. The bars are designed to withstand high mechanical loads and thermal influences without deformation.

The tensile strength exceeds that of conventional steel bars, while the weight is approximately three to six times lower. This reduces overall material quantity and makes handling and installation easier. The modulus of elasticity typically ranges between 48–60 GPa, providing strong and elastic reinforcement that maintains its shape under load.

The thermal resistance spans from –70 °C to +100 °C for bars with resin (the basalt fibres themselves withstand up to +850 °C), making the product suitable for both cold and hot environments. Basalt fibres are non-combustible, enhancing safety in constructions, and the low water absorption ensures stability under humid conditions.

Wiking® Super B Rebar is an environmentally friendly alternative to steel, as production requires significantly less energy and eliminates the need for corrosion protection. This contributes to a lower CO₂ footprint and a more sustainable construction process.

Properties of Wiking® Super B Rebar

- Corrosion-free and chemical-resistant
- Low water absorption
- High mechanical strength and elasticity
- Environmentally friendly and natural basalt fibre

Delivery Programme

Wiking® Super B Rebar is supplied in standard lengths or according to customer specifications. Diameter and length are adapted to project requirements. Minimum quantity is agreed individually.

Scope of Warranty

Wiking® Super B Rebar is produced in an ISO 9001:2015 certified facility and meets applicable quality standards. The product has been tested for mechanical strength, thermal stability, and chemical resistance. Danish Fibres strives for high quality but does not have control over all stages of the value chain. We therefore accept no responsibility for third-party production, customer processing, application, or the final result where our materials are used. All data is for guidance only, and the customer is responsible for assessing suitability for the intended purpose.

Health and Safety

Please read the specific Safety Data Sheet or contact Danish Fibres' technical team.

Technical Support

Danish Fibres' technical department is available for advice on correct product usage.

Specifications – Wiking® Super B Rebar	
Material:	Basaltfiber med epoxy/polymer binder
Diameter:	4–24 mm
Tensile strength:	850–1050 MPa
Modulus of elasticity:	48–60 GPa
Thermal range:	–70 °C til +100 °C
Surface:	Fused with resin
Chemical resistance:	High
Weight:	4–6 times lighter than steel

2026.06.24



It is always the user's responsibility to ensure the correct selection and application of Danish Fibres' products. This includes, but is not limited to, product selection, mixing, placement, design, manufacturing, and testing of materials in which the products are incorporated.

Danish Fibres provides general, non-binding information only, and has no control over third-party production, customer processing, application, or the final outcome where our materials are used. We therefore accept no responsibility for end products or for how our materials are used in practice.

Any losses or damages – direct or indirect – arising from incorrect use of information or products are the sole responsibility of the user. For further details, please refer to Danish Fibres' general terms and conditions of sale and delivery.