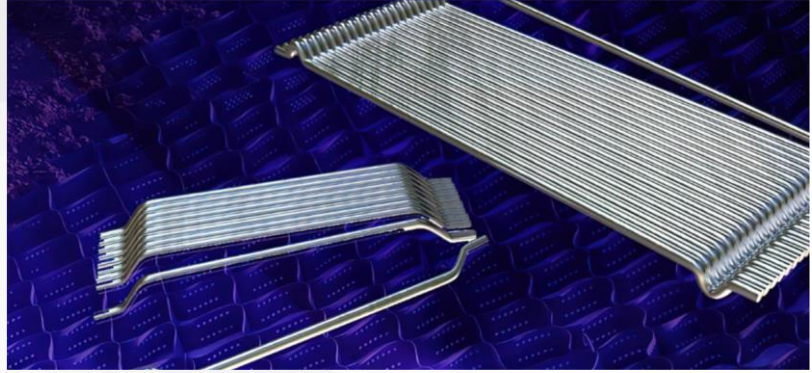


Regmiks

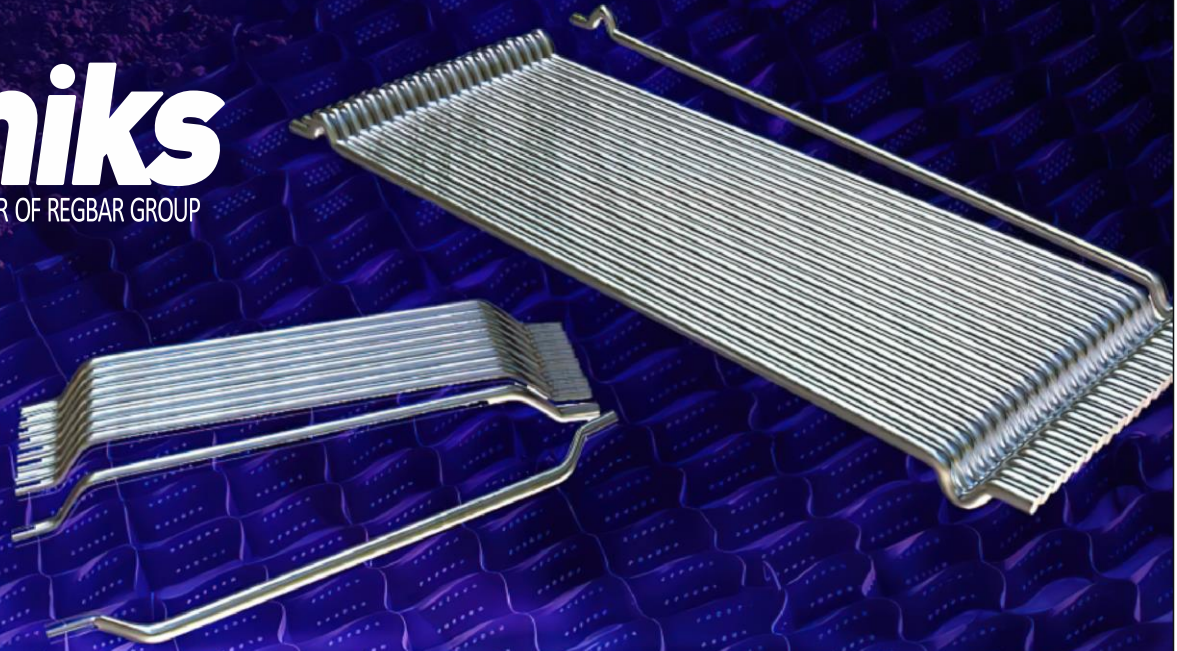
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Regmiks Steel Fiber

High Impact Resistance

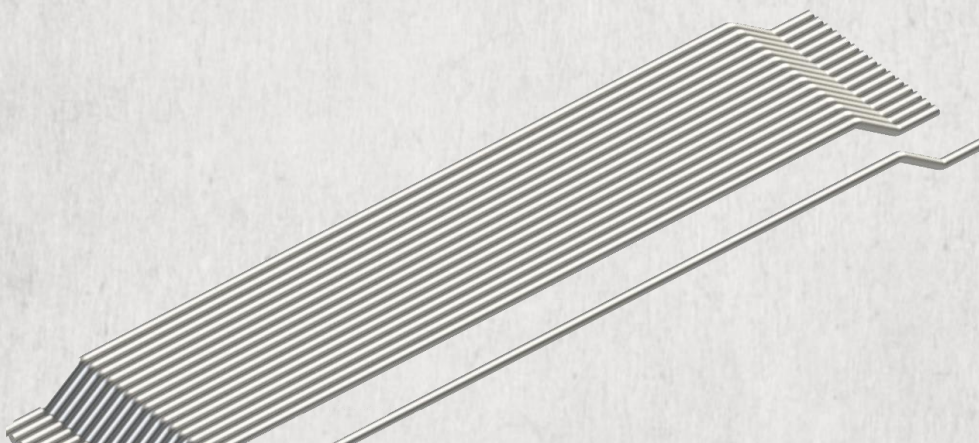
The concrete has low tensile strength and ductility. It is necessary to add reinforcement to resist the tensions in the structural elements.

ACI and ASCE recommend use of steel fiber as reinforced concrete to prevent cracking, increase impact resistance and prevent destruction due to fragmentation.

It is recommended to use 10kg/m³ minimum dosage according to EN 14889-1,



- ▶ Easily added to concrete.
- ▶ Hooked wires provide anchorage.
- ▶ Provides faster construction times.
- ▶ The reinforcement is always in the right place.
- ▶ Economic as compared to traditional methods.
- ▶ Load bearing capacity is high.
- ▶ 3-dimensional dispersion of reinforcement provides excellent crack control.
- ▶ High resistance to dynamic loads and sudden impacts.
- ▶ Provides wide joint spans.



RGSF 0,5/30 HOOKED END STEEL FIBER

EN 14889-1:2006;
TU 1211-205-46854090-2005;
STO 71915393-TU 106-2011

DESCRIPTION

Steel wire fiber RGSF 1/50 with hooked ends, randomly distributed in the concrete can reduce or even replace traditional rebar and welded mesh reinforcement. It can be applied in industrial floors, roads, strip foundation, road surfacing, bridges and other constructions with standard structural demands.

ADVANTAGES

RGSF 1/50 fiber provides a good performance of reinforcement effect in the concrete while it is batched easily with a low tendency to form clumps when added to the concrete mixture.

RECOMMENDED SCOPE OF APPLICATION

- All types of industrial floors (cut joint, jointless, pile supported)
- Roads, strip and single foundations

PACKAGING

- Corrugated cardboard boxes (25 kg). Fibers in the box are oriented in the same direction for easy dosing.
- Big Bags (600 kg).

TECHNICAL STANDARD DOCUMENTATION

- Code of Regulations 360.1325800.2017 "Steel Fiber Reinforced Concrete Structures. Design Rules".
- EN 1992-1-1 Design of Concrete Structures. – Part 1-1: General Rules and Rules for Buildings.
- DIN EN 1045-1 Concrete Reinforced and Prestressed Concrete Structures. – Part 1: Design and Construction.
- DAfStb Directive "Steel Fiber Reinforced Concrete" 11/2012 (as a supplement to DIN EN 1992-1-1, DIN EN 206-1, DIN 1045-2, DIN EN 13670, DIN 1045-3 for concrete structures).
- TR34 Concrete Industrial Ground Floors. A Guide to Design and Construction. (UK Concrete Society CS).
- TR550 Industrial Floors Design (UK Concrete Society CS).

Fiber diameter, mm	0,5 ± 0.04
Fiber length, mm	30.0 + 2.0
Hooked ends length, mm	2.0 -1.0/+2.0
Hook height, mm	2.1 +0.5/-0.0
Bend angle	40° -5°/+10°
Tensile strength, Mpa	1235
Tensile strength, Mpa	≥ 200000



RGSF 75/52 HOOKED END STEEL FIBER

EN 14889-1:2006;
STO 71915393-TU 106-2011

DESCRIPTION

Steel wire fiber RGSF 75/52 with hooked ends, randomly distributed in the concrete can reduce or even replace traditional rebar and welded mesh reinforcement. It can be applied both in standard applications of steel fiber reinforced concrete, and in load bearing concrete structures (foundations, walls, ceiling slabs, pile supported floors, bridge constructions, reinforced concrete constructions).

ADVANTAGES

RGSF 75/52 fiber has an improved length/diameter ratio, a big amount of fiber per kg, a good saturation of fiber in the concrete matrix and an increased tensile strength for high performance.

RECOMMENDED SCOPE OF APPLICATION

- All types of industrial floors (cut joint, jointless, pile supported, screeds).
- Load bearing constructions (foundation rafts, elevated slabs supported by columns and/or walls).
- Roads, reinforced concrete constructions, strip and single foundations.

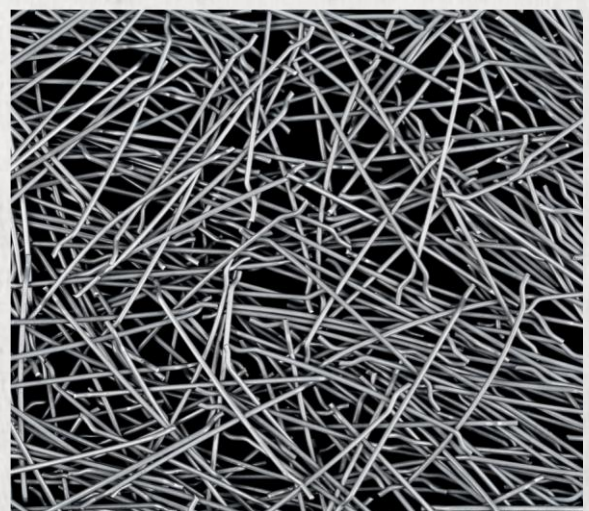
PACKAGING

- Corrugated cardboard boxes (25 kg). Fibers in the box are oriented in one direction for easy dosing.
- Big Bags (600 kg).

TECHNICAL STANDARD DOCUMENTATION

- Code of Regulations 360.1325800.2017 "Steel Fiber Reinforced Concrete Structures. Design Rules".
- EN 1992-1-1 Design of Concrete Structures. – Part 1-1: General Rules and Rules for Buildings.
- DIN EN 1045-1 Concrete Reinforced and Prestressed Concrete Structures. – Part 1: Design and Construction.
- DAfStb Directive "Steel Fiber Reinforced Concrete" 11/2012 (as a supplement to DIN EN 1992-1-1, DIN EN 206-1, DIN 1045-2, DIN EN 13670, DIN 1045-3 for concrete structures).
- TR34 Concrete Industrial Ground Floors. A Guide to Design and Construction. (UK Concrete Society CS).
- TR550 Industrial Floors Design (UK Concrete Society CS).

Fiber diameter, mm	0.75 ± 0.04
Fiber length, mm	52 ± 2.0
Hooked ends length, mm	2.0 -1.0/+2.0
Hook height, mm	2.1 +0.5/-0.0
Bend angle	40° -5°/+10°
Tensile strength, Mpa	1500
Tensile strength, Mpa	≥ 200000

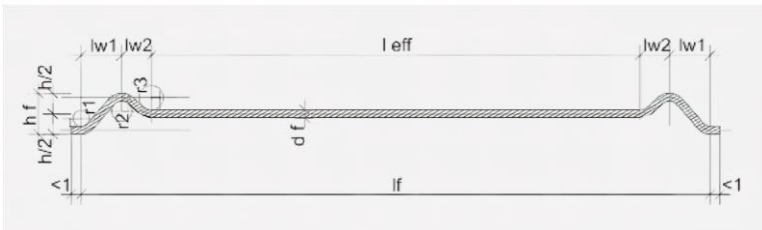


RGSF 75/62 GLUED HOOKED END STEEL FIBER

EN 14889-1:2006;
STO 71915393-TU 148-2016

DESCRIPTION

Fiber of this type was designed by applying state-of-the-art developments in the field of dispersed reinforcement. Anchor unique shape and extended length are the features that make steel fiber reinforced concrete a unique product. Application: industrial floors, walls and loadbearing constructions with high demands on crack width limitation.



ADVANTAGES

RGSF 75/62 GLUED is a perfect steel fiber for structural applications with high performance requirements and strength of concrete in tension. Optimized and improved anchor ensures superior performance of steel fibers.

PACKAGING

- Corrugated cardboard boxes (25 kg).
- Big Bags (600 kg).

DOSING

To avoid the well-known balling-effect of fiber with an effective performance-oriented shape during the dosing-process this fiber is glued into cages while being manufactured. The used glue later dissolves in the fluids of the concrete in the process of preparing the fiber-reinforced-concrete-mixture without compromising the quality of the mixture.

Fiber diameter, mm	0.75 ± 0.04
Fiber length, mm	62.0 ± 2.0
Hooked ends length, mm	6.9 ± 1.0
Hook height, mm	4.0+0.1/-0.3
Ratio lf/df	83
Tensile strength Rm (average standard value), N/mm ² *	1500
Module of elasticity**, N/mm ² , not less than	200 000
Number of fibers per 1 kg, pcs.	4651
Total length of 10 kg of fiber, m	2883.49

* 1 N/mm=1 MPa; ** not regulated, based on the used steel grades.



RGSF 60/32 HOOKED END STEEL FIBER

EN 14889-1:2006;
STO 71915393-TU 106-2011

DESCRIPTION

Steel wire fiber RGSF 60/32 with hooked ends can be used as reinforcing material as a replacement for traditional rod-reinforcement and meshes. Short and thin fiber (l=32 mm, d=0.6 mm) allows its use in thin concrete structures of any type with a maximum size of fillers 8-16 mm and in all types of sprayed concrete structures in shaft construction and tunneling.

ADVANTAGES

Steel fiber RGSF 60/32 provides an optimized indicator of the aspect-ratio l/d to provide an exceptional performance in concrete. The values of length and diameter were determined to ease dosing fibers into the concrete using conventional dosing equipment available on concrete-plants.

PACKAGING

- Cardboard boxes (25 kg) with fiber on pallets, 48 boxes on each. Net weight per pallet: 1200 kg.
- Bg bags (800x1200, weight 600 kg), 2 bg bags on a pallet, pallet weight: 1200 kg, for all types of fibers.

TECHNICAL STANDARD DOCUMENTATION

- Code of Regulations 360.1325800.2017 "Steel Fiber Reinforced Concrete Structures. Design Rules".
- EN 1992-1-1 Design of Concrete Structures. – Part 1-1: General Rules and Rules for Buildings.
- DIN EN 1045-1 Concrete Reinforced and Prestressed Concrete Structures. – Part 1: Design and Construction.
- DAfStb Directive "Steel Fiber Reinforced Concrete" 11/2012 (as a supplement to DIN EN 1992-1-1, DIN EN 206-1, DIN 1045-2, DIN EN 13670, DIN 1045-3 for concrete structures).

Fiber diameter, mm	0.6 ± 0.04
Fiber length, mm	32.0 ± 1.5
Hooked ends length, mm	$2.0 -1.0/+1.5$
Hook height, mm	$1.7+0.3/-0.0$
Bend angle	$40^\circ \pm 5^\circ$
Tensile strength, Mpa	1450
Tensile strength, Mpa	≥ 200000



REGMIKS

Macro & Micro Synthetic Fiber

Our high performance polymer macro fibers offer the performance of steel fibers at lower dosage rates. The unique anchoring system and higher aspect ratio (length/diameter) of each macro synthetic fiber provide higher performance in the concrete matrix. Macro & Micro synthetic fibers impart additional toughness, energy absorption and durability levels to concrete. In addition, macro-synthetic fibers provide an additional measure of crack control without the risk of corrosion associated with steel.

When used in shotcrete applications, these high-tech fibers provide greater adhesion, so not only will you experience less recoil and waste, you will be able to apply thicker layers of shotcrete in a single pass. Fiber-reinforced shotcrete offers greater energy absorption, a more efficient rock section profile, improved ductility, fracture toughness, and offers simpler application logistics.



100% Quality Production ✓

Production in Quality Standards ✓

Support after sale ✓



Regmiks synthetic fibers

Regmiks synthetic fibers are ideal for precasting, shotcrete and floor slabs, among many other applications. The fibers are used to improve properties such as crack resistance, crack control, durability, fatigue life, resistance to impact and abrasion, volume change due to moisture, thermal changes and fire resistance.

Easy to use, environmentally friendly recycled packaging does not leave any waste in the field as all packaging is thrown into the mix during blending. The fiber is evenly distributed throughout the matrix, ensuring that no clumping or pumping issues occur. This significantly speeds up construction and reduces labor time by completely eliminating the need for steel mesh reinforcements. Combined with good design, sub-base conditions, concrete properties and placement techniques, Regmiks fibers provide a stronger and more durable flooring with top-down reinforcement within the flooring.

APPLICATION AREAS

SIDE WALKS / ROADS

PRE-CAST PANELS / AIRPORT RUNWAYS

BREAKING WALLS AND OTHER SEA DEFENSES INFRASTRUCTURE

APPLICATION

The required dose per cubic meter is added to the mixture after blending. The subsequent addition of fibers to the pile must be mixed for intermittent addition to the concrete.

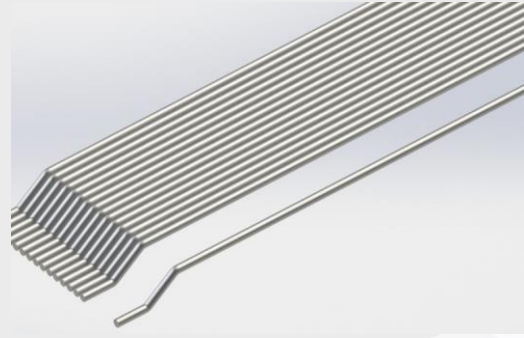
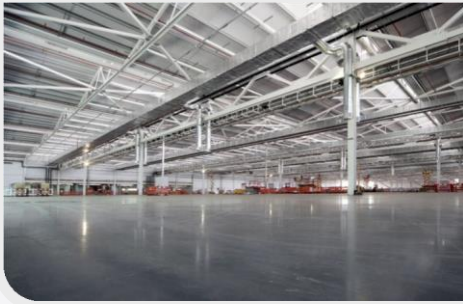
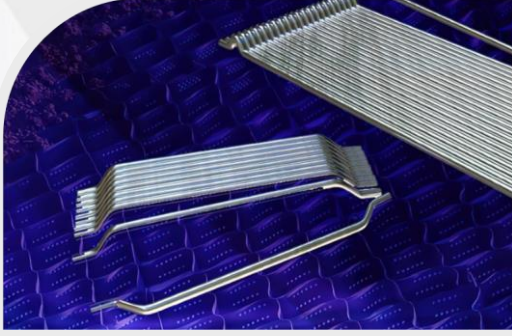
The dosage rate of fibers will vary depending on: engineering features. Typically, fiber dosage will vary between 2kg and 9kg per cubic meter. Macro-fiber reinforced concrete can be pumped, sprayed or placed using conventional equipment.

BENEFITS

- Geometrically designed to prevent matrix shrinkage
- Increase in flexural toughness
- Reduces segregation
- Stainless
- Non-magnetic
- Safe and very easy to use
- Chemically inactive
- Increases impact and fracture resistance
- Simplified logistics
- Economic alternative to traditional rebar

Regmiks

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