



STEEL FIBERS

Structural Fibers

GENERAL DESCRIPTION

The structural steel fibers can 100% replace the classical rebars or the welded mesh in any ground-level constructions.

They are the most used and known type of reinforcement fibers in the world, as they are far more time and cost efficient than the classical armature.

Based on our price offer you could calculate these savings exactly.

STEEL FIBERS ADVANTAGES

- **Cost**
- **Disperse structural** reinforcement - Which means reinforcing each cubic centimeter of concrete
- **Transport** - The amount of steel or steel mesh is reduced
- **Time** – The reinforcement is done by simply mixing the fibers in the concrete
- **Improved physical characteristics:**
 - Reduces plastic contraction
 - Reduces the thermal contraction and expansion of hardened concrete
 - Improves the impact strength and compression resistance
 - Helps achieving a homogeneous ductile concrete, increases its elasticity and, as final result, increases bearing in concrete elements
 - Reduces the possibility of forming cracks
 - Increases the wear-proofness of the floor
 - Increases floor resistance even at temperature changes and thermal shocks

APPLICATION EXAMPLES

- Industrial flooring
- Highways paving
- Airport runways
- Earthquake resistant structures
- Maritime structures
- Lining tunnels
- And other ground-level constructions

TRANSPORT AND STORAGE OF STEEL FIBERS

- The shipping is done only by weatherproof transport means
- The packing will be on pallets of 1 ton. Each pallet is being wrapped in stretch film
- The storage has to be done in covered spaces, protecting the product from any atmospheric factors that might degrade the packaging
- For handling the wooden pallets, the staff has to be instructed in order to avoid the deterioration of the stretch film or the paper bags.

MIXING AND HOMOGENIZATION

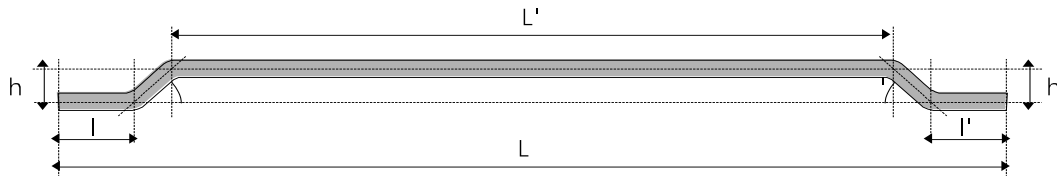
Mixing and homogenization can be achieved either at the concrete station or directly in the truck mixer in 7 minutes at medium speed.

PACKING

Steel fibers are packed in laminated paper bags of 15 or 20 kg.

TEHNICAL DATA SHEET FOR RFC 45/50 HOOKED-END STEEL FIBERS

Disperse concrete reinforcement fibers for structural or nonstructural usage



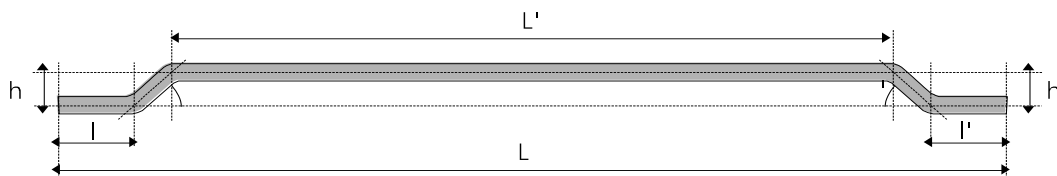
Parameters	Measure Unit	Standard values	Deviations Limit	Compliance
Diameter, D	mm	1.05	± 0.04	EN14889-1/2007
Length, L	mm	50	± 5.0	
Aspect ratio, L/D	mm	47.6	± 7.1	
Tensile strength Rm	N/mm ²	min.1100	$\pm 15\%$	
Bend trials		min. 3 bending		

Recommended Dosage: min. 15 kg /m³

Fibers total/ kg = 2800

TEHNICAL DATA SHEET FOR RFC 80/60 HOOKED-END STEEL FIBRES

Disperse concrete reinforcement fibers for structural or nonstructural usage



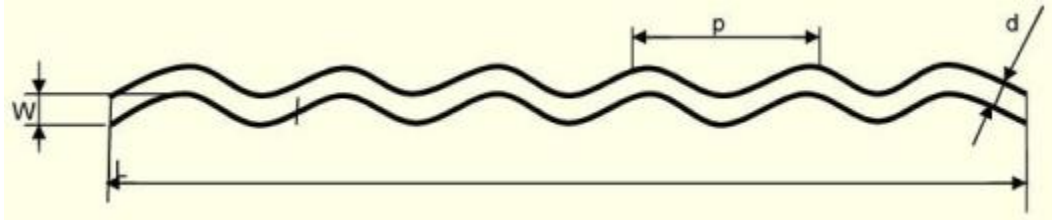
Parameters	Measure Unit	Standard values	Deviations Limit	Compliance
Diameter, D	mm	0.75	± 0.04	EN14889-1/2007
Length, L	mm	60	± 5.0	
Aspect ratio L/D	mm	80	± 7.1	
Tensile strength Rm	N/mm ²	min.1200	$\pm 15\%$	
Bend trials		min. 3 bending		

Recommended Dosage: min. 10 kg /m³

Fibers total/ kg = 4600

TEHNICAL DATA SHEET FOR CORRUGATED STEEL FIBERS RFO 1.05x30

Disperse concrete reinforcement fibers for structural or nonstructural usage



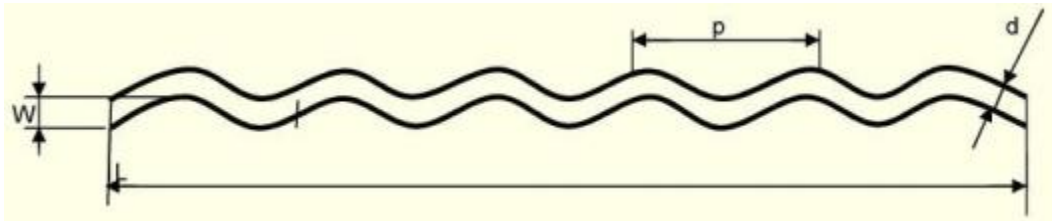
Parameters	Measure Unit	Standard values	Deviations Limit	Compliance
Diameter, D	mm	1.05	± 0.04	EN14889-1/2007
Length, L	mm	30	± 5.0	
Tensile strength Rm	N/mm ²	min.1100	$\pm 15\%$	
Bend trials		min. 3 bending		

Recommended Dosage: min. 5 kg /m³

Fibers total/ kg = 5300

TEHNICAL DATA SHEET FOR CORRUGATED STEEL FIBERS RFO 1.05x50

Disperse concrete reinforcement fibers for structural or nonstructural usage



Parameters	Measure Unit	Standard values	Deviations Limit	Compliance
Diameter, D	mm	1.05	± 0.04	EN14889-1/2007
Length, L	mm	50	± 5.0	
Tensile strength Rm	N/mm ²	min.1100	$\pm 15\%$	
Bend trials		min. 3 bending		

Recommended Dosage: min. 15 kg /m³

Fibers total/ kg = 2800

Should you have any questions, please do not hesitate to contact us. Our technical team will be pleased to help you.

CERTIFICATIONS

Product Certifications



EN-14889-1/2007

System Certifications



142499/2013



142501/2013

Storage



Packaging



For optimal usage and maximum efficiency, please contact our technical department by e-mail: tehnic@romfracht.com or by phone: 0040212561208

For orders please contact our sales department by e-mail: sales@romfracht.com, by phone: 0040212561208 or by fax: 0040317309454