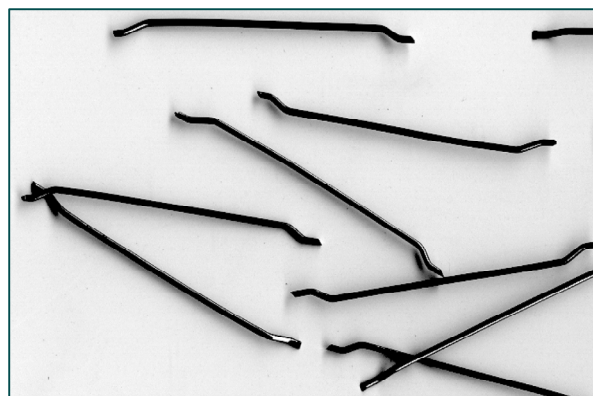


WIRAND® STEEL FIBRES FOR CONCRETE REINFORCEMENT

SPECIFICATIONS	
PROPERTIES	
Use	FF - Fibres for flooring and precasting FS - Fibres for sprayed concrete
Type	FF and FS - Cold drawn steel wire fibre for concrete reinforcement. Fibres are available galvanised if required (special order)
Applications	Precast concrete, industrial flooring, sprayed concrete, tunnelling, jointless flooring,
Packaging	The WIRAND® fibres are delivered packed in large bags of 600, 750, 950 kg weight, or in carton boxes of 20kg each.
Shape	The end profiles of WIRAND® fibres are very important to grant optimum adhesion between fibre and concrete matrix.
Storage	Preserve the pallets from atmospheric corrosion. For correct waste disposal of packaging material, please follow the directives stated in European Directives and national laws.
Dosage	Maccaferri can supply a range of machines depending on the application and size of the project. These can be integrated into batching or precasting plants. There are 2 basic types:- <ul style="list-style-type: none"> • Circular doser - can be incorporated in the batching plant • Dosage box (hopper type) - introduces fibres into a concrete mixer
Tensile Strength	> 1100 MPa
Elongation at Break	< 4%
Youngs' Modulus of Elasticity	210,000 MPa
Reference Standards	UNI-EN 10016: Non-alloy steel rod for drawing and/or cold rolling - Part 1: General Requirements BS-EN 14889-1: Fibres for concrete - Part 1: Steel Fibres—Definition, specifications & conformity

WIRAND® FIBRES			
Fibre Type	D (mm)	L (mm)	L/D Aspect Ratio
FF1	1.00	50	50
FF3	0.75	50	67
FS1	0.55	37	67
FS3N	0.75	33	44
FS4N	0.60	33	55
FS7	0.55	33	60
Mean Tolerance	+/- 5%	+/- 5%	+/- 7.5%



Wirand® Fibres

Maccaferri reserves the right to alter specifications of its products without notice. Please contact us for the most up to date specifications.

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