

**EARTH FIBER 60/30
LOOSE HOOKED END STEEL FIBER
PRODUCT DATA SHEET**



EARTH FIBER™ 60/30 Hooked End Steel Fibres are designed specifically for the reinforcement of concrete, mortars and other cementitious mixes. EARTH FIBER™ 60/30 is a cold drawn wire fibre, hooked end to provide optimum performance within the concrete mix. EARTH FIBER™ 60/30 Hooked End steel fibres are ASTM compliant and specifically designed to meet or exceed the defined performance requirements.

FEATURES & BENEFITS

- Provides uniform multi – directional concrete reinforcement
- Increases crack resistance, ductility, energy absorption or toughness of concrete
- Improves impact resistance, fatigue endurance and shear strength of concrete
- High tensile strength fibre bridging joints and cracks to provide tighter aggregate interlock resulting in increased load carrying capacity
- Provides increased ultimate load bearing capacity which allows possible reduction of concrete section
- Requires less labour to incorporate into concrete than conventional reinforcement
- Offers economical concrete reinforcement solutions with greater project scheduling accuracy
- Ideally suited for hand or vibratory screeds, laser screeds and all conventional finishing equipment.

PRIMARY APPLICATIONS

- Ground supported slabs
- Jointless Floors & Jointed Floors
- External roads & pavements
- Manhole Covers

COMPLIANCE

- Conforms to ASTM A820, Type I cold drawn wire
- Testing conforms with ASTM A820

TYPE

Loose Hooked End

NOMINAL DIMENSIONS :

- Diameter D : 0.60mm;
- Length L : 30mm;
- Aspect Ratio L/D: 50

MECHANICAL PROPERTIES

- R_m (Tensile strength of the wire): >1250 mPa
- Δ^l (Strain at failure) < 4%
- Camber of the Fibre: max. 5% of L'
- Number of Fibres per kg: 14221

SHAPE

The ending shapes of Hooked End Steel Fibre are very important to grant adhesion between Fibre and concrete.

Conforms to
ASTM A-820M 06

**AN ISO
9001:2015
Certified Company**

**GEOMETRY
EARTH FIBER™ 60/30
Loose Hooked End Steel Fiber**

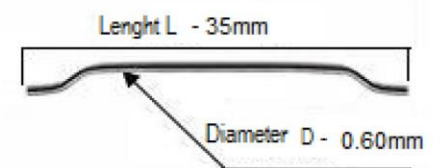


Figure 1

D = 0.60mm
L = 30mm
A/R = 50
Tolerance for D/L \pm 10%
As per ASTM A-820M 06
EN 14889-1



Earth fiberTM 60/30



PRODUCT USE

MIXING DESIGNS AND PROCEDURES :

Earth fiberTM 60/30 Hooked End steel fibers can be added during or after the batching of the concrete but should never be added as the first component. Such devices as conveyor belts, chutes and dispensers may be used to add fibers to the mixer at the ready mix plant. After the fibers have been added, the concrete should be mixed for sufficient time (minimum 5 minutes at full mixing speed) to ensure uniform distribution of the fibers throughout the concrete. The use of mid or high-range water reducing admixtures can be advantageous, but is not essential.

PLACING: Earth fiberTM 60/30 Hooked End steel fibers can be pumped and placed using conventional equipment. Hand or vibratory screeds and laser screeds can be used with Earth fiberTM 60/30 Hooked End steel fibers.

FINISHING: Conventional finishing techniques and equipment can be used when finishing Earth fiberTM 60/30 Hooked End steel fibers concrete. In some cases an extra bull float process is advised and lowering the angle of the power float blades will help to minimize fibre exposure on the surface.

DOSAGE RATE: The fibre dosage will vary depending on the type of application, concrete mix design and the performance / toughness requirements of each particular project. Typically, steel fibre dosage will be in the range of 10 kg to 40 kg per cubic meter. Earth Fibrex Infra Pvt. Ltd. technical team can offer advice on dosage requirements once performance requirements have been established by the project designer / engineer.

COMPATIBILITY

Earth fiberTM 60/30 Hooked End steel fibers are compatible with all curing compounds, super plasticizers, water reducers, hardeners and coatings.

SAFETY

It is recommended that gloves and eye protection be used when handling or adding Earth fiberTM 60/30 Hooked End steel fibers to concrete.

PACKAGING

Earth fiberTM 60/30 Hooked End steel fibers are available, as standard in 25 kgs Bag.

TECHNICAL SERVICES

Earth Fibrex Infra Pvt. Ltd. is backed by our team of reinforced concrete consultants who can carefully analyze each project and provide fibre reinforced concrete design solutions to ensure maximum project performance and cost efficiency.

REFERENCES

- ASTM A820 Standard Specification for Steel Fibres for Fibre Reinforced Concrete.
- BS EN 14889-1
- ASTM C1116 Standard Specification for Fibre-Reinforced Concrete and Shotcrete.
- ASTM C1018 Standard Test Method for Flexural Toughness and First Crack Strength of Fibre-Reinforced Concrete.
- IRC:SP:46:1997 Code of Indian Road Congress
- IS:12592:2002 SFRC Manhole covers

SPECIFICATION CLAUSE

- Fibers for concrete shall be Earth fiberTM 60/30 Hooked End steel fibres conforming to ASTM A-820M Type I and manufactured from cold drawn wire with a minimum tensile strength of 1250 mPa / N/mm²

Manufactured by :

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