

Product

End Hooked

Type

1.0/50

Aspect Ratio

50



# Technical Data Sheet

## EESF® End Hooked Steel Fiber 1.0/50



### Product Description

EESF® End Hooked Steel Fiber 1.0/50 is a low carbon, cold-drawn steel wire designed to reinforce slab on grade concrete and enhance reinforced constructional elements with shrinkage crack control, improve shear resistance, and increase tensile and flexural strengths.

### Advantages

- Prevent cracks due to early-age shrinkage .
- Better cohesion in the fresh concrete.
- Increase flexural strength and shear resistance.
- Improve load capacity and concrete ductility.
- Increase abrasion, fatigue resistance.
- Enhance concrete in its hardened state.
- Provide ultimate performance under intense conditions

### Usage

- Industrial floor slabs
- Warehouses , Factories.
- Commercial and Residential S.O.G. and screed flooring.
- Bridge decks, overlays and pavements.
- Concrete Roads, Parking Areas .
- Precast concrete applications and slabs on pile.
- Shotcrete.
- Tunnel, linings and slope stabilizations .
- Mass concrete and composite deck construction.
- Military Purposes

### Specification Compliance

EESF® End Hooked Steel Fiber is manufactured according to AISI 1008-1010 standards, ASTM A820

### Dosage

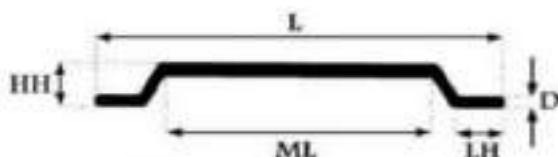
Recommended Dosage 10 : 36 kg/m<sup>3</sup> according to aci  
Add directly to the concrete mix while being mixed either at the batch plant or the truck mixer.  
Mix for a minimum of 5 minutes at maximum mixing speed after addition of fibers to ensure complete distribution of the fibers.



American Concrete Institute

### Packing

25kg double layered carton bags.



Circular End Hooked Cross section

### Product Data

Width (d)	1 mm ± 0.5 mm
Length (L)	50 mm ± 3 mm
Middle Length (ML)	40 mm ± 3 mm
Hook Height (HH)	2.50 mm ± 0.40 mm
Hook Length (HL)	5 mm ± 1 mm
Density	7,870 kg / m <sup>3</sup>
Melting point	1,480°C
Tensile Strength	1057 N/mm <sup>2</sup>
Aspect Ratio(L/deff)	50

### Chemical Composition

Carbon (C)%	0.09% ±0.01%
Silicon (Si)%	0.08% ±0.03%
Manganese (Mn)%	0.70%±0.10%
Phosphorus (P)%	≤0.015%
Sulphur (S)%	≤0.03%





# CERTIFICATE

## Certificate of Registration

TEAM QUALITY MANAGEMENT SYSTEMS

This is to Certify that the Quality Management System of

### EGYPTIAN EUROPEAN FOR MANUFACTURING STEEL FIBER

Villa 306, Al Yasmine 6, 5th Settlement New Cairo, Cairo – Egypt.

Has been found to be of the Quality Management System Standard

# ISO 45001:2018

(Occupational Health and Safety Management Systems)

This certificate is valid for the following product or service range

### Manufacture of Steel Fiber for Ready- Mix Concrete

Certificate No. : TQO24100601

Date of initial registration	06-10-2024
Date of this certificate/Issue No.	06-10-2024
Certificate Expiry	05-10-2025
Recertification Due	05-10-2027



\*After successful completion of Annual Surveillance Audit, New certificate will be issued.

This Certificate is valid per Rules and Regulations of TQ & also the surveillance audits conducted atleast once a year  
To check the certification validity please visit our website- [www.tq.com.eg](http://www.tq.com.eg) or contact at- [info@tq.com.eg](mailto:info@tq.com.eg)



*Ezzat Nabih*  
Director

TEAM QUALITY MANAGEMENT SYSTEMS

Abass Alagad St Al Yousra Building- Office No 9- Sadat City, Egypt

Ph: +20 48 2677 103 Mobile: +20 100 3888626 -+20 1000547672 - +20 1099337474

website: [www.tq.com.eg](http://www.tq.com.eg) E-mail: [info@tq.com.eg](mailto:info@tq.com.eg)

Accreditation by EGAC Kornish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt



# CERTIFICATE

## Certificate of Registration

TEAM QUALITY MANAGEMENT SYSTEMS

This is to Certify that the Quality Management System of

**EGYPTIAN EUROPEAN FOR MANUFACTURING  
STEEL FIBER**

Villa 306, Al Yasmine 6, 1st Settlement New Cairo, Cairo – Egypt.

Has been found to be of the Quality Management System Standard

**ISO 9001:2015**

**(Quality Management System)**

This certificate is valid for the following product or service range

**Manufacture of Steel Fiber for Ready- Mix Concrete**

Certificate No. : TQQ24100603

Date of initial registration 06-10-2024

Date of this certificate/Issue No. 06-10-2024

Certificate Expiry 05-10-2025

Recertification Due 05-10-2027



\*After successful completion of Annual Surveillance Audit, New certificate will be issued.

This Certificate is valid per Rules and Regulations of TQ & also the surveillance audits conducted atleast once a year

To check the certification validity please visit our website- [www.tq.com.eg](http://www.tq.com.eg) or contact at- [info@tq.com.eg](mailto:info@tq.com.eg)



*Ezzat Nabik*  
Director

**TEAM QUALITY MANAGEMENT SYSTEMS**

Abass Alaqad St Al Yousra Building- Office No 9- Sadat City, Egypt

Ph: +20 48 2677 103 Mobile: +20 100 3888626 -+20 1000547672 - +20 1099337474

website: [www.tq.com.eg](http://www.tq.com.eg) E-mail: [info@tq.com.eg](mailto:info@tq.com.eg)

Accreditation by EGAC Komish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt



# CERTIFICATE

## Certificate of Registration

### TEAM QUALITY MANAGEMENT SYSTEMS

This is to Certify that the Quality Management System of

### EGYPTIAN EUROPEAN FOR MANUFACTURING STEEL FIBER

Villa 306, Al Yasmine 6, 5th Settlement New Cairo, Cairo – Egypt.

Has been found to be of the Quality Management System Standard

## ISO 14001:2015 (Environmental Management System)

This certificate is valid for the following product or service range

### Manufacture of Steel Fiber for Ready- Mix Concrete

Certificate No. : TQE24100601

Date of initial registration	06-10-2024
Date of this certificate/Issue No.	06-10-2024
Certificate Expiry	05-10-2025
Recertification Due	05-10-2027



\*After successful completion of Annual Surveillance Audit, New certificate will be issued.

This Certificate is valid per Rules and Regulations of TQ & also the surveillance audits conducted atleast once a year  
To check the certification validity please visit our website- [www.tq.com.eg](http://www.tq.com.eg) or contact at- [info@tq.com.eg](mailto:info@tq.com.eg)



*Ezzat Nabih*  
Director

### TEAM QUALITY MANAGEMENT SYSTEMS

Abass Alaqad St Al Yousra Building- Office No 9- Sadat City, Egypt

Ph: +20 48 2677 103 Mobile: +20 100 3866626 -+20 1000547672 - +20 1099337474

website: [www.tq.com.eg](http://www.tq.com.eg) E-mail: [info@tq.com.eg](mailto:info@tq.com.eg)

Accreditation by EGAC Komish El-Maadi, Riad El-Maadi Tower 1 - Cairo - Egypt