



*Fibercon*

# *E - Z Mesh*

## Steel & Synthetic Fiber

### Description

E-Z Mesh is a secondary reinforcement for concrete utilizing carbon steel fibers and virgin synthetic (polypropylene) fibers. This combination addresses both plastic shrinkage and restrained shrinkage cracking. Unlike welded wire fabric or light rebar, E-Z Mesh is distributed throughout the entire concrete matrix.

### Primary Applications

- \* Slab on ground
- \* Office Buildings
- \* Commercial market
- \* Schools
- \* Composite metal decks
- \* Churches
- \* Retail Stores

### Benefits/Features

- Use in place of wire mesh (for temperature and shrinkage reinforcement)
- Reduce plastic shrinkage cracks
- Can be pumped

### Physical Properties:

<b>Steel Fibers</b>	<b>Properties</b>	<b>Synthetic Fibers</b>
ASTM A820	.....ASTM Specifications.....	ASTM C-1116 Type III
Carbon Steel	.....Material Type.....	Virgin Polypropylene
414-828 Mpa (60-120 ksi)	.....Tensile Strength.....	N/A
25.0 mm (1")-38.0 mm (1.5")	.....Fiber Length.....	19.0 mm (3/4")
.33-.60 mm (.013-.025")	.....Average Thickness.....	N/A
35-45	.....Average Aspect Ratio.....	N/A
7.85	.....Specific Gravity.....	0.91
29.0 x 10 <sup>8</sup> @ 70° F (20° C)	.....Modulus of Elasticity.....	500 ksi
2760° F (1516° C)	.....Melting Point.....	320° F (160° C)
Nil	.....Absorption.....	Nil



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## How to Use

- **Mixing**— E-Z Mesh is added to the mixer after batching all other concrete products. The entire water soluble bag is added and mixed at least 5 minutes per the speeds as specified in ASTM C94 standard for ready-mixed concrete.
- **Finishing**— E-Z Mesh can be finished through conventional techniques. This includes: hand, vibratory and laser screeds.

## Guidelines

- E-Z Mesh is a secondary reinforcement.
- E-Z Mesh is not a replacement for structural reinforcement.
- E-Z Mesh is not intended to reduce slab thickness nor increase joint spacing.

**Always follow both the ACI and PCA specifications and guidelines.**

## Packaging

Standard E-Z Mesh is 24 net pounds (23 lbs. steel fibers and 1 lb. synthetic) packaged in a water soluble bag. Standard pallet quantities are 90 bags (or 2,160 pounds/pallet) shrink-wrapped in plastic. Note: keep all E-Z Mesh bags and pallets out of wet conditions.

## References

- ASTM A820 Standard Specification for Steel Fibers for Fiber-Reinforced Concrete.
- ASTM C94 Standard Specification for Ready-Mixed Concrete.
- ASTM C1399 Average Residual Strength of Fiber Reinforced Concrete.
- ASTM C1018 Standard Test Method for Flexural Toughness and First-Crack Strength of Fiber-Reinforced Concrete.
- ASTM C1116 Standard Specification for Fiber-Reinforced Concrete and Shotcrete.
- ACI 304 Guide for Measuring, Mixing, Transporting and Placing Concrete.
- ACI 302.1R \*Guide for Concrete Floor and Slab Construction.
- ACI 360R-92 \*Design of Slabs on Ground.
- ACI 544-1R \*Fiber Reinforced Concrete.
- ACI 544-3R Guide for Specifying, Proportioning, Mixing, Placing, and Finishing Steel Fiber Reinforced Concrete.
- UL Approvals for use as an alternative or in addition to welded wire fabric used in floor-ceiling D700, D800 and D900 series designs.

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### WARRANTY AND LIMITATION OF LIABILITY:

Product sold hereunder is of merchantable quality and conforms to seller's standards and specifications. Seller's sole liability for claim shall be limited to replacement of defective or nonconforming product. In no event shall seller be liable for any special, incidental, consequential or exemplary damages. Fibercon recommends that each user determine the suitability of the product(s) for their own particular application.