

# Fibercon<sup>®</sup> Technology Described

Fibercon<sup>®</sup> steel fibers are manufactured using a method known as “Slit Sheet” processing giving the product a rectangular cross-section. Fibercon<sup>®</sup> steel fibers are manufactured under a quality plan in compliance to ASTM A820-06 Type II.

Produced from low carbon steel and various grades of stainless steel, Fibercon fibers are available in lengths from 1/2” (13mm) to 2.0” (50mm). The fibers are available in straight, continuously deformed (wavy), or end-deformed versions.

The following are typical dimensions of the 3 most popular types:

## Product Nomenclature

### CAR-25-CDM

CAR - Low Carbon Steel  
25 - 1.0” (25mm) in length  
CDM - Continuous Deformed Medium

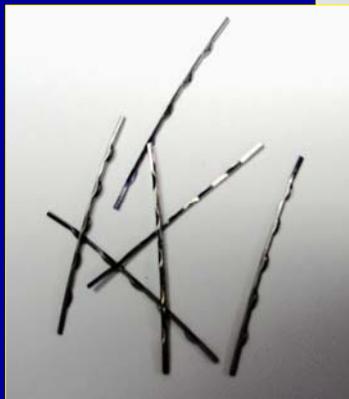
### CAR-35-EDM

CAR - Low Carbon Steel  
35 - 1 3/8” (35mm) in length  
EDM - End Deformed Medium

### CAR-50-EDM

CAR - Low Carbon Steel  
50 - 2” (50mm) in length  
EDM - End Deformed Mild

**CAR-25-CDM**



**CAR-35-EDM**



**CAR-50-EDM**

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Small Fibers are used where crack propagation is the most important design consideration. High fiber count (number of fiber per lb or kg) permits a better distribution of steel fiber throughout the concrete matrix and consequently, greater crack control.

Higher fiber count FIBERCON steel fibers can yield as much as 9 times more reinforcing elements per unit of fiber weight than larger 2" fibers currently on the market. There is simply a greater quantity of shorter steel fibers per given unit of weight than with longer fibers. So as a crack progresses, the chance of it being physically stopped by the presence of a reinforcing fiber increases. This enhanced "crack arresting" ability holds the key to the outstanding performance of large numbers of shorter steel fibers

in crack containment applications, such as slab-on-ground composite metal deck.

Fibercon CAR-25-CDM fiber gives the best compromise between high fiber count and the requirements for workability and finishability. This makes it ideal for industrial floor slabs, highway pavements, bridge deck overlays, floors over composite metal deck and other applications. These fibers mix easily and lays into the concrete surface much more effectively than longer, stiffer fibers facilitating easier placement and resulting in a more "fiber free" finish.

Fibercon CAR-35-EDM fiber gives the best fiber performance for shotcrete applications subjected to ASTM 1609 testing requirements.

## Standard fiber types

CAR-25-CDM  
CAR-35-EDM  
CAR-38-CDM  
CAR-50-EDM

Other sizes available  
upon request.



**"We put  
strength in  
concrete"**



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