



Dramix® Loop™

Steel fibers with near-zero carbon emissions for more sustainable concrete structures.

Ultra dense fiber network

100% circular

EPD of 0.0436

High strength

From the world's leading steel cord manufacturer, reinforcing 1 in every 4 tires, comes a solution that minimises CO₂. This takes the form of Dramix® Loop™, ready to tackle this challenge by transforming tire cord from end-of-life tires into high-performance steel fibers.

As such, the prioritisation of finding a circular use for this high-grade steel resulted in the first high-performing steel fiber – specifically engineered for concrete reinforcement,

supporting a truly circular economy with its near-zero carbon emissions.

What sets Dramix® Loop™ apart is its very low contamination percentage, high tensile strength, and strict production tolerances. This ensures higher precision, and reliable performance in non-structural concrete applications e.g. precast & flooring applications.

100% Circular Zero Compromise on Performance



Interested in including Dramix® Loop™ in your next project?

We are looking for likeminded pioneers to implement this innovative solution. Our team of concrete reinforcement experts is ready to support you with a tailored implementation plan - from concept to completion.

Contact our team of concrete reinforcement experts:

Visit [construction.bekaert.com](https://www.construction.bekaert.com) or email infobuilding@bekaert.com

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Dense fiber network, low dosages

Dramix® Loop™ steel fibers offer a high tensile strength of 390 ksi avg., while their diameter of 0.01 in. avg. makes it possible to achieve a denser fiber network. This, in turn, allows for lower fiber dosages per cubic meter of concrete. Dramix® Loop™ 20 and 25 steel fibers are CE marked, conform with EAD 260010-00-0301 and ETA 25/0711.

Description	Dramix® Loop™ 15	Dramix® Loop™ 20	Dramix® Loop™ 25
Geometry	Random	Random	Random
Average length	0.59 in.	0.79 in.	0.98 in.
Average diameter	0.01 in.	0.01 in.	0.01 in.
Aspect ratio	55	75	93
Average tensile strength (ksi)	390 ksi	390 ksi	390 ksi
Fiber network	72,000 fibers/lb	54,000 fibers/lb	43,000 fibers/lb
Dosage per ft ³	0.187 - 4.994 lb/ft ³	0.187 - 4.994 lb/ft ³	0.187 - 4.994 lb/ft ³
EPD value	0.0436	0.0436	0.0436

* All mentioned values are indicative

Maximizing performance, minimizing environmental impact



Near-zero carbon emissions: Dramix® Loop™ is made from second life steel, significantly reducing its environmental impact, as it has an EPD value of 0.0436 kg CO₂e/kg.



Ultra dense fiber network: Thanks to the fibers' high aspect ratio, a count of up to 72,000 fibers/lb avg. within the concrete matrix can be achieved. This leads to enhanced crack control and post-cracking ductility, while the high tensile strength ensures that steel fibers can withstand high stress without breaking.



Driving a circular economy: Made from the tire cord of end-of-life tires, Dramix® Loop™ repurposes steel to reduce landfill waste, conserve valuable resources, and support a sustainable, closed-loop economy.



Maximized benefits of steel fibre reinforcement: Dramix® Loop™ delivers all the advantages of conventional steel fibers - cost-efficiency, enhanced durability, and improved safety -while offering the added benefit of sustainability.

The ideal solution for a wide range of concrete applications

- Industrial floors
- Outdoor pavements
- Residential applications
- Sprayed concrete
- Infrastructure applications
- Precast elements
- (Ultra) High Performance Concrete (UHPC/HPC)