

# X-Mix Steel Fiber

## Steel Corrugated Segment Fiber

### Product Description

X-Mix Steel Fiber is a low carbon, cold-drawn and corrugated steel wire fiber designed to provide concrete with shrinkage crack control, enhanced reinforcement, improved shear strength and increase the crack resistance of concrete.

### Advantages

- Increase impact and abrasion resistance of concrete
- Reduces segregation, plastic settlement and shrinkage cracking of concrete
- Provides three dimensional reinforcement
- Increase overall durability and flexural toughness
- Reduction of in-place cost versus wire mesh for temperature/shrinkage crack

### Uses

X-Mix Steel Fiber has typical applications as:

- Commercial and industrial slabs on grout
- Bridge decks, overlays and pavements
- Precast concrete applications and slabs on pile
- Shotcrete, tunnel, linings and slope stabilization
- Mass concrete and composite deck construction

### Specification Compliance

ASTM C1116, ASTM A820 Type I

### Laboratory Test Data

<b>Fiber size</b>	25-60 mm
<b>Tensile strength</b>	>700 N/mm <sup>2</sup>

### Dosing Instructions

Add directly to the concrete mix while being mixed either at the batch plant or the truckmixer.

Mix for a minimum of 5 minutes at maximum mixing speed after addition of fibers to ensure complete distribution of the fibers.

Fibers should never be added to a zero slump concrete. Ensure a minimum concrete slump of 3 in (80 mm) prior to addition of any fiber material. Fibers may also be added in loose form to aggregate charging devices.

### Packaging

20kg boxes

### Shelf Life

3 years minimum

### Storage

Store under shade out of direct sunlight and below 40°C. Keep dry at all times.

### Limitations

Do not try to mix fibers in to the mix by hand  
Do not use in place of structural reinforcement

### Health and Safety

**This product is for industrial use only by trained operatives. It is not considered hazardous if used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website [www.ncc.com.eg](http://www.ncc.com.eg).**

### Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Support Specialists ('ATSS') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit [www.ncc.com.eg](http://www.ncc.com.eg) for a full list of NCC X-Calibur ATSSs.

### Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on [www.ncc.com.eg](http://www.ncc.com.eg) to ensure you have the latest version.

### Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Chemicals **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Chemicals shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.