The principle of all Fibercon steel fibre reinforced concrete is to provide discrete, discontinuous reinforcement and effective crack control. Fibercon steel fibres are available in various shapes and sizes to suit different applications.

Fibercon works because unlike mesh reinforcing, the steel fibres reinforce in three dimensions throughout the entire concrete matrix.

The fibre functions to reinforce and restrain micro-cracking, essentially acting as “miniature reinforcing bars”. Thus the earlier the crack is intercepted and its growth inhibited, the lower the chance of it developing into a major flaw.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>PERFORMANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fibercon S38</td>
<td>Steel Fibres - S38</td>
<td>The S &amp; GPF range is suited to many applications: Pavements - light duty to heavy impact roads, roundabouts, paths and extrusions. Toppings, precast, shotcrete, decorative stencil concrete</td>
</tr>
<tr>
<td>Fibercon S50</td>
<td>Steel Fibres - S50</td>
<td>The S50 range is suited to many applications: Pavements - light duty to heavy impact roads, roundabouts and paths. Toppings, precast, shotcrete, decorative stencil concrete</td>
</tr>
<tr>
<td>Fibercon 65/60</td>
<td>Hook End Fibres 65/60</td>
<td>Hook end fibres can replace all conventional reinforcing methods for concrete or can be used in combination with them. Reinforcing warehouses and heavy duty yard slabs</td>
</tr>
</tbody>
</table>

Fibercon S38
Steel Fibres - S38
The fibres are made from hard-drawn low-carbon high tensile steel wire, and are continuously deformed conforming to the provisions of ASTM 820 type 1.

Fibercon S50
Steel Fibres - S50
The fibres are made from hard-drawn low carbon high tensile steel wire, and are continuously deformed conforming to the provisions of ASTM 820 type 1.

Fibercon 65/60
Hook End Fibres 65/60
Is a steel fibre cold-drawn wire for reinforced concrete conforming to the provisions of ASTM 820 and ASTM C1116/C1116M.
IN SLAB

The fibres are made from hard-drawn low carbon high tensile steel wire and are continuously deformed conforming to the provisions of ASTM 820 type 1.

Fibercon works because unlike mesh reinforcing, the steel fibres reinforce in three dimensions throughout the entire concrete matrix.

The fibre functions to reinforce and restrain micro-cracking, essentially acting as “miniature reinforcing bars”. Thus the earlier the crack is intercepted and its growth inhibited, the lower the chance of it developing into a major flaw.

**KEY FEATURES**
- Provides good impact, fatigue and shrinkage control in all grade concrete
- Easy-to-use at high doses in high performance pavements
- Is suited for hand and laser screeding and conventional finishing
- Is very good in post crack control (toughness)
- Its positive mechanical anchorage gives exceptional three-dimensional post crack control
- Performs and sprays well in shotcrete applications
- Economical

**PACKAGING**
Steel fibres come in bags of 20kg and 60 bags per 1200kg pallet, standard pallet x 1.5m high.

**SAFETY**
It is recommended that when handling or adding the steel fibres to concrete that gloves and eye protection be worn.

**HOW SHOULD A FIBERCON SPECIFICATION READ**
It is recommended the following phraseology is all you need to secure the benefits of Fibercon Steel Fibres: “Fibercon Steel Fibre Reinforcement shall be added to the concrete at the rate of ___ kg/m$^3$. Steel fibre shall meet all the requirements of ASTM A820-90 Type 1. The fibre shall be made from low carbon drawn wire with a tensile strength of greater than 800 MPa and have sufficient ductility to permit 180-degree bend with rupture. Fibres shall be continuously deformed, with a minimum length of 38mm.”

**TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>Fibre</th>
<th>General purpose</th>
</tr>
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<tbody>
<tr>
<td>Minimum Tensile Strength</td>
<td>800 Mpa</td>
</tr>
<tr>
<td>Fibre Length</td>
<td>38mm</td>
</tr>
<tr>
<td>Thickness - Equivalent</td>
<td>&lt;0.5mm</td>
</tr>
<tr>
<td>Tolerances</td>
<td>+ or -5%</td>
</tr>
<tr>
<td>Description</td>
<td>Semi circular in cross section</td>
</tr>
<tr>
<td>Anchorage</td>
<td>Continuous Deformation</td>
</tr>
<tr>
<td>Appearance</td>
<td>Bright and clean wire</td>
</tr>
<tr>
<td>Complying</td>
<td>ASTM A820 Type I &amp; AS1379-1991</td>
</tr>
</tbody>
</table>

**ESTIMATING DATA**
The dose rate of fibre is dependent on the application, however, the minimum dose is 20kg/m$^3$ and then it will increase in increments of 4kg/m$^3$ accordingly.

**TYPICAL APPLICATIONS**
Pavements - light duty to heavy impact roads, roundabouts, paths, extrusions. Toppings, precast, shotcrete, decorative stencil concrete.
The fibres are made from hard-drawn low carbon high tensile steel wire and are continuously deformed conforming to the provisions of ASTM 820 type 1.

Fibercon works because unlike mesh reinforcing, the steel fibres reinforce in three dimensions throughout the entire concrete matrix.

The fibre functions to reinforce and restrain micro-cracking, essentially acting as “miniature reinforcing bars”. Thus the earlier the crack is intercepted and its growth inhibited, the lower the chance of it developing into a major flaw.

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The dose rate of fibre is dependent on the application, however, the minimum dose is 20kg/m³ and then it will increase in increments of 4kg/m³ accordingly.

**TYPICAL APPLICATIONS**

Pavements - light duty to heavy impact roads, roundabouts, paths, extrusions. Toppings, precast, shotcrete, decorative stencil concrete.

**KEY FEATURES**

- Provides good impact, fatigue and shrinkage control in all grade concrete
- Easy-to-use at high doses in high performance pavements
- Is suited for hand and laser screeding and conventional finishing
- Is very good in post crack control (toughness)
- Its positive mechanical anchorage gives exceptional three-dimensional post crack control
- Economical

**PACKAGING**

Steel fibres come in bags of 20kg and 60 bags per 1200kg pallet, standard pallet x 1.5m high.

**SAFETY**

It is recommended that when handling or adding the steel fibres to concrete that gloves and eye protection be worn.

**HOW SHOULD A FIBERCON SPECIFICATION READ**

It is recommended the following phraseology is all you need to secure the benefits of Fibercon Steel Fibres:“Fibercon Steel Fibres Reinforcement shall be added to the concrete at the rate of ___ kg/m³. Steel fibre shall meet all the requirements of ASTM A820-90 Type 1. The fibre shall be made from low carbon drawn wire with a tensile strength of greater than 800 MPa and have sufficient ductility to permit 180-degree bend with rupture. Fibres shall be continuously deformed, with a minimum length of 50mm.”
Hook End Fibres 65/60 is a steel fibre cold-drawn wire for reinforced concrete. Hook End Fibres 65/60 is designed in order to avoid balling issues and to improve the durability of the concrete.

The most important parameter of fibres is their ability to transfer stresses across cracked sections rather uniformly. Hook End Fibres can replace all conventional reinforcing methods for concrete or can be used in combination with them.

**TECHNICAL INFORMATION**

**PROPERTIES**

<table>
<thead>
<tr>
<th>Compliance</th>
<th>ASTM A820/A820M</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ASTM C1116/C1116M</td>
</tr>
<tr>
<td></td>
<td>EN 14889-1</td>
</tr>
<tr>
<td>Tensile Strength (Rm)</td>
<td>1,140 MPa (165,345 psi)</td>
</tr>
<tr>
<td>Young's Modulus</td>
<td>210,000 N/mm² (30,457,900 psi)</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Length</th>
<th>Equiv. Diam.</th>
<th>Aspect Ratio</th>
<th>Quantity of Fibres</th>
</tr>
</thead>
<tbody>
<tr>
<td>60mm (2.36 inch)</td>
<td>0.92mm (0.036 inch)</td>
<td>65</td>
<td>3,036 fibres/kg (1.377 fibres/lb)</td>
</tr>
</tbody>
</table>

**CERTIFICATES**

CANZAC Hook End 65/60 fibres are certified to CE mark and structural use (system 1) according to European Standard. Manufactured under ISO 9001 and ISO 14001 certification.

**KEY FEATURES**

- Increase load bearing capacity
- Control shrinkage cracks
- Improve durability
- Reinforce the concrete multi-directionally
- Reduce construction time

**PACKAGING**

20kg (44lb) paper bag

**SAFETY**

We recommend that gloves and eye protection be used when handling fibre.

**STORAGE**

Store in a dry area.

**APPLICATIONS**

- Industrial slab floor
- Commercial floor
- Cast in place concrete
- Precast concrete product

**COLLATED**

60mm (2.36 inch)

[Image of collated Hook End Fibres 65/60]

0.92mm (0.036 inch)