# PC® CARBOCOMP ROD

**Unidirectional carbon fibre rods for the reinforcement of structures**



## 1. Description

Epoxy carbon fibre rods composed of unidirectional orientated carbon fibres.

Minimum fibre content: 68 volume %

Size:

| Øn(1) (mm) | Ør(2) (mm) |
|---|---|
| 6 | 8 |
| 8 | 10 |
| 10 | 12 |
| 12 | 14 |

(1) Øn: nominal diameter, the characteristic value of fibre subjected to tensile.
(2) Ør: real diameter, real value measured by calibre

Length: max. 5,0 m

## 2. Application

Reinforcing of beams, floors, walls and columns in concrete, wood and steel. Strengthening of bridges and buildings, for example in the following cases:

- Repair of the original bearing capacity, like after a fire or corrosion of the rebars.
- Local strengthening of construction elements, when making holes through floor plates or walls.
- To increase the load bearing capacity.
- To repair errors during construction.

## 3. Properties

| | |
|---|---|
| Tensile strength<br>average value<br>min. value | <br>2300MPa<br>>2100MPa |
| Modulus of elasticity<br>average. value<br>min. value | <br>165GPa<br>>160GPa |
| Elongation<br>min. value | <br>>1,31% |
| Density | 1,80 g/cm³ |

## 4. Advantages

- High tensile strength and stiffness
- Light weight

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- Very low creep
- Flexible in use
- Excellent corrosion, acid and alkali resistance
- High durability
- Little thermal expansion
- Requires little or no maintenance