PC® CARBOCOMP TEXTILE 300

TECHNICAL DATASHEET

1. Description

Unidirectional carbon fibre textile with carbon fibres in the longitudinal direction. This textile is protected against pollution by a membrane.

2. Applications

Increase of the bearing capacity of columns from bridges, buildings.
Increase of the shear strength of beams.
For example in the following cases:

- Repair of the original bearing capacity, like after a fire or corrosion of the rebars.
- To increase the load bearing capacity of beams and columns.
- To repair errors during construction.

3. Advantages

- High tensile strength and stiffness
- Easy to apply
- Very little creep
- Flexible in use
- Excellent corrosion, acid and alkali resistance
- High durability
- Little thermal expansion
- Maintenance free, does not corrode

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4. Technical properties

Properties	Technical Characteristics
Weight	300 g/m²
Roll width	± 300 mm
Roll length	150 m
Fabric equivalent thickness	0,167 mm
Fabric cross area per unit width	167 mm²/m
Tensile strength	4000 MPa
Stiffness	240 GPa
Max. elongation	1,60%
Density	1,80 g/cm^3
Water absorption	< 0,1 percent by weight
Application temperature	- 40°C till +130°C

The above values are typical and indicative only. The achievable properties obtained from tensile test are dependant on the impregnating/laminating resin used and the type of tensile testing procedure. Apply material reduction factors according to the relevant design standard.

5. Application

Apply the PC® 5800 resin on the element to be reinforced. Press the **PC® CarboComp Textile** into the wet resin. Please ventilate with a profiled roll. Then immediately apply a layer of PC® 5800 Carbo on the carbon fibre textile. The consumption of PC® 5800 Carbo varies in function of the roughness and porosity of the surface (estimated consumption: 500 g/m²).