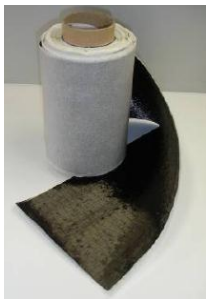
PC® CARBOCOMP TEXTILE 225 / 300

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 to buildings.
Increase of the shear strength of beams.
For example in the following cases:

- Reinstatement of the original bearing capacity, e.g. after a fire or corrosion of the rebars.
- To increase the load bearing capacity of beams and columns.
- To repair construction/design errors, as well as design changes.

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	225g/m²	300g/m²
Roll width	± 300mm	± 300mm
Roll length	150m	150m
Fabric equivalent thickness	0,125mm	0,167mm
Fabric cross area per unit width	125mm²/m	167mm²/m
Tensile strength	4000 MPa	4000 MPa
Stiffness	240 GPa	240 GPa
Max. elongation	1,60%	1,60%
Density	1,80 g/cm^3	1,80 g/cm^3
Water absorption	< 0,1 percent by weight	< 0,1 percent by weight
Application temperature	- 40°C till +130°C	- 40°C till +130°C
Tensile strength (design value)	330 kN/m	450 kN/m

The above values are typical and indicative only. The achievable properties obtained from tensile tests 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. Applications

Apply the Pro-Struct 632 Laminating Resin on the element to be reinforced. Press the **PC® CarboComp Textile** into the wet resin. Please ventilate with a profiled roller. Then immediately apply a layer of Pro-Struct 632 Laminating Resin on the carbon fibre textile. The consumption of Pro-Struct 632 Laminating Resin varies depending on the roughness and porosity of the surface (estimated consumption: 500g/m²).