

# PRODUCT DATA



## STONCOR CARBOCOMP TEXTILE 300

### DESCRIPTION

StonCor CarboComp Textile 300 is a unidirectional carbon fibre textile with strand oriented in longitudinal direction. This textile is adhered to the surface with StonCor 5800 Carbo LPL.

### APPLICATIONS

Increase of the bearing capacity of columns in bridges and buildings and the shear strength of beams.

Examples include:

- Repair of the original load bearing capacity, eg. after fire damage or corrosion of embedded reinforcement.
- Increase the load bearing capacity of beams and columns.
- Repair of construction errors.
- Seismic upgrading of structures.

### ADVANTAGES

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

### APPLYING

Apply the StonCor Carbo 5800 LPL resin onto the prepared surfaces of the element to be reinforced. Press the StonCor Carbo Comp Textile into the wet resin and roll with a profiled roller to remove entrapped air. Immediately after rolling, apply a second layer of StonCor 5800 Carbo LPL onto the carbon fibre textile. The consumption of StonCor 5800 Carbo LPL varies depending on the roughness and porosity of the surface (estimated consumption: 500-800 g/m<sup>2</sup>).

### NOTES

- Material Safety Data Sheets for StonCor CarboComp Textile 300 products are available upon request.
- A staff of Technical Service Engineers is available to assist with installation or to answer questions related to StonCor CarboComp Textile 300 products.
- Requests for technical service or literature can be made through local sales representatives and offices or corporate offices located worldwide.

### TECHNICAL PROPERTIES

Properties	Technical Characteristics
Weight:	300 g/m <sup>2</sup>
Roll Width:	± 300 mm
Roll Length:	150 m
Fabric Equivalent Thickness:	0.167 mm
Fabric Cross Area Per Unit Width:	167 mm <sup>2</sup> /m
Tensile Strength:	4000 MPa
Stiffness:	240 GPa
Maximum Elongation:	1.60%
Density:	1.80 g/cm <sup>3</sup>
Water Absorption:	<0.1 percent by weight
Operating Temperature:	-40°C to +130°C

The above values are typical and for indicative purposes only. The properties obtained from tensile test are dependent on the impregnating/laminating resin used and the type of tensile testing procedure. Apply material reduction factors according to relevant design standards and local building codes.

#### Important:

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