



Technical Data Sheet

Date of Issue: 1st Jan 2021 Page 1 of 2

Product Name: RELINFORCE C Fab 1200

Carbon Fabric for FRP Structural Strengthening

Description

Unidirectional Carbon fabric of 1200 GSM for Structural Reinforcement System

Application Areas

- Structural strengthening, restoration, reconstruction, repair, seismic retrofitting of reinforced concrete/concrete, masonry, metal (Steel), Wood constructions.
- Increasing the load capacity of reinforced concrete/concrete, masonry, metallic and wooden structures (including complex geometric shapes, as well as in confined spaces) without increasing their weight.
- Increased seismic resistance.
- Structural strengthening of bridges.

Features & Benefits

- Wide range of application
- Lightweight, system does not create an additional load on construction
- Corrosion resistance
- Minimum labor and time spent on work
- Low transportation cost
- Ability to perform repair without interrupting the operation of buildings or structures
- No additional costs for further operation

Properties of RELINFORCE C Fab 1200

Fiber type	High Strength CF
Width, mm	500
Fiber Direction	00
Weaving style	plain
Warp	12K / 24K Carbon
Weft	Glass Fiber (Thermo fixed)
Tensile Strength of Fiber, MPa	≥ 4900
Tensile Modulus of Fiber, GPa	≥ 250
Elongation of Fiber, %	> 2.1
Fibre Density, gm/cc	1.8 ± 0.05
Tensile Strength composite laminate, MPa [ASTM D3039]	≥ 1200*
E-Modulus composite laminate, GPa [ASTM D3039]	> 85*
Consumption of <i>RELINFORCE Fab S</i> (in kg/m²)	~ 1.2

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Date of Issue: 1st Jan 2021 Page 2 of 2

Note:

- 1. *Laminate prepared using RELINFORCE Fab S. Result might change when used with other resin system.
- 2. Values mentioned above are indicative.
- 3. For Specific & Critical need, designer is advised to get independent testing to ascertain the values for assurance of intended performance.
- 4. Carbon Fabric of other GSM can be made on special request.
- 5. Consumption of RELINFORCE Fab S will depend on substrate surface roughness & porosity

Packaging Size

RELINFORCE C Fab 1200 is supplied in 50M Roll Length in 1 cardboard

Shelf Life

NA

Precaution

Precaution to be taken that it is kept in roll form only.

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