

Technical Data Sheet

Date of Issue: 1st May 2020

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Product Name: RELINFORCE C Fab Series

Carbon Fabric for FRP Structural Strengthening

Description

Unidirectional Carbon fabric of different 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 Series

Fiber type	High Strength CF
Fabric Aerial weight, GSM	200, 230, 300, 400, 430, 450, 500, 600, 900, 1200
Width, mm	500
Fiber Direction	0°
Weaving style	plain
Warp	12K / 24K Carbon
Weft	Glass Fiber (Thermo fixed)
Ends Warp, 10 cm	32 ± 1
Ends Weft, 10 cm	10 ± 1
Fibre Tensile Strength, MPa	> 4900
Fibre E-Modulus, GPa	> 240
Fibre Elongation, %	2.1 ± 0.1
Fibre Density, g/cc	~1.8

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Note:

1. Values mentioned above are indicative.
2. For Specific & Critical need, designer is advised to get independent testing to ascertain the values for assurance of intended performance.
3. Carbon Fabric of other GSM can be made on special request.

Packaging Size

RELINFORCE C Fab Series is supplied in 50M Roll Length packed in cardboard box

Shelf Life

NA

Precaution

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

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