

Technical Data Sheet

Date of Issue: 1st May 2020

Page 1 of 2

Product Name: RELINFORCE C Fab 230

Carbon Fabric for FRP Structural Strengthening of Concrete Structures

Description

Unidirectional Carbon fabric of 230 GSM for Structural Reinforcement of Concrete Structures

Application Areas

- Structural strengthening, restoration, reconstruction, repair, seismic retrofitting of reinforced concrete
- Increasing the load capacity of concrete structures (including complex geometric shapes, as well as in confined spaces) without increasing their weight
- Increased seismic resistance
- Structural strengthening of concrete structures

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 230

Fiber type	High Strength CF
Width, mm	500
Fiber Direction	0°
Weaving style	plain
Warp	12K / 24K Carbon
Weft	Glass Fiber (Thermo fixed)
Tensile Strength of Fiber, MPa	≥ 4900
E-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]	≥ 450*
E-Modulus composite laminate, GPa, [ASTM D3039]	> 35*
Consumption of RELINFORCE Fab S (in kg/m ²)	~ 0.4

Vadodara Composites Division, Village: Asoj, Vadodara-Halol Expressway, Taluka: Waghodia, Vadodara, Gujarat 391510

Technical Data Sheet

Date of Issue: 1st May 2020

Page 2 of 2

** Composite laminate properties obtained on specimens (cured at 23°C, 7 days) of carbon tape impregnated by epoxy system RELINFORCE FAB S.*

Packaging Size

RELINFORCE C Fab 230 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.

Notice: No freedom from any patent owned by RIL or others is to be inferred. RIL assumes no obligation or liability for the information in this document. The information provided herein is presented in good faith and is based on the best of RIL's knowledge, information, and belief. Since use conditions at non-RIL facilities are beyond RIL's control and government requirements may differ from one location to another and may change with time, it is solely the Buyer's responsibility to determine whether RIL's products are appropriate for the Buyer's use, and to assure the Buyer's workplace, use, and disposal practices are in compliance with applicable government requirements. Consequently, RIL assumes no obligation or liability for use of these materials and makes no warranty, express or implied. The user of the information provided is solely responsible for compliance with any applicable government requirements. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.