

Technical Data Sheet

Date of Issue: 1st May 2020

Page 1 of 2

Product Name: RELINFORCE C Grid 90/1000
RELINFORCE C Grid 150/1200
RELINFORCE C Grid 260/1200
RELINFORCE C Grid 600/1000

Structural reinforcement System on the base of carbon fiber grids

Description

Carbon fiber Grid 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.

Features & Benefits

- Can be used for High-Temperature & Moisture laden surfaces being a cementitious sandwiched system
- Universality of applications, including corner joints, as well as on curved surfaces
- Corrosion resistance
- Minimum labor and time spent on work
- Ability to perform repair without interrupting the operation of buildings or structures
- Non-flammable

Properties of RELINFORCE C Grid

	RELINFORCE C Grid 90/1000	RELINFORCE C Grid 150/1200	RELINFORCE C Grid 260/1200	RELINFORCE C Grid 600/1000
Fiber Type	High strength CF			
Cell size, mm	10 x 20			
Fiber Direction	0°/90°			
Areal weight, g/m ²	90 ± 10%	150 ± 10%	260 ± 10%	600 ± 10%
Width, mm	1000	1200	1200	1000
Warp	12 K	12 K	24 K	50 K
Weft	12 K	12 K	24 K	48 K
Tensile strength (Wrap), MPa	2400	2600	2600	2300
Tensile strength (weft), MPa	1800	2100	2100	2900
Tensile strength (Fiber), MPa	≥ 4300			
E-modulus(Fiber), GPa	≥ 230			
Elongation at break, %	≥ 1.5			

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Page 2 of 2

Notes:

1. System to be sandwiched into a cementitious structural grade system like Structural Grade Mortar, Structural Grade Micro-concrete or Structural Grade Spray Micro Concrete.
2. Cementitious Structural Grade System need to be Shrinkage Compensated system, with final compressive strength as per the compressive strength requirement of the system.
3. For Cementitious System, Pull out Bond Strength of the material should be more than 1.5 MPa with Parent Substrate Failure.

Packaging Size

RELINFORCE C Grid is supplied in 100M Roll Length in 1 cardboard box

Shelf Life

NA

Precaution

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

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