

Technical Data Sheet

Date of Issue: 1st Jan 2021

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Product Name: RELINFORCE C Lam EP

RELINFORCE C Lam EP 12/50
 RELINFORCE C Lam EP 14/50
 RELINFORCE C Lam EP 12/100
 RELINFORCE C Lam EP 14/100

Description

Epoxy based carbon fiber laminates for Structural reinforcement.

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

- High Mechanical characteristics
- 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 Lam EP Series

RELINFORCE C Lam EP	12/50	14/50	12/100	14/100
Resin	Epoxy			
Fiber Content, %	> 65			
Fiber Direction	0°			
Width, mm	50	50	100	100
Thickness, mm	1.2	1.4	1.2	1.4
Cross Section, mm ²	60	70	120	140
Fibre Tensile Strength, MPa	≥ 4900			
Fibre Modulus, GPa	≥ 250			
Laminate Tensile Strength, MPa	≥ 2700			
Laminate Modulus, GPa	≥ 150			
Elongation	> 1.8			

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

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Note:

1. Suggest adhering *RELINFORCE C Lam EP* using *RELINFORCE Lam A*. 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. Refer to *RELINFORCE Lam A* Product Datasheet to understand the property of adhesive.

Packaging Size

RELINFORCE C Lam EP Series is supplied in 50 M Roll Length

Shelf Life

NA

Precaution

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

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