



# LOCTITE RENEWWRAP GF1100 with XPL Saturant

## Unidirectional Glass Fiber Reinforcing Fabric

**LOCTITE RenewWrap GF1100** is a dry, unidirectional reinforcing fabric made with high strength, standard modulus glass fibers. LOCTITE RenewWrap GF1100 fabric, along with LOCTITE RenewWrap XPL Saturant are used to strengthen or retrofit existing concrete and masonry structures.

### TYPICAL USES

Recommended for:

- Strengthen for load increases
- Address changes in structural system, like slab openings
- Retrofit for seismic, wind, or blast
- Restore strength to damaged members like fire or vehicle impact
- Restore strength to deteriorated members subject to corrosion
- Strengthen for design/construction errors

### RELEVANT INFORMATION

- Design calculations shall be made and sealed by a licensed, independent engineer knowledgeable with the design of FRP strengthening systems.
- Avoid completely encapsulating/covering concrete or masonry members subject to freeze/thaw or moisture vapor transmission.

### STORAGE AND SHELF LIFE

Store in a cool, dry place at 50-90 °F (10-32 °C) on a roll suspended in a box away from flame or other hazards. Shelf life is 10 years in unopened packaging.

### PACKAGING

Available in 270 Feet (82.2m). long rolls suspended in boxes. Yield equals 540 ft<sup>2</sup>/roll (50.2 m<sup>2</sup>)

### PRODUCT DESIGNATION

LOCTITE RenewWrap GF1100 is available in a total reinforcement width of 24 in (610 mm).

### BENEFITS

- Less layers required
- Proven long term performance
- Easy to impregnate using wet or dry lay-up methods



### ENGINEERING SUPPORT

GeoTree Solutions provides no-cost, pre-bid, engineering support. Contact your sales representative for more information.

PRODUCT DESIGNATION	NO. OF FABRIC ZONES	ZONE WIDTH
GF1100 – 1 x 24	1	24in. (610mm)





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Unidirectional Glass  
Fiber Reinforcing Fabric

## Typical Dry Fiber Properties<sup>1</sup>

PROPERTY	VALUE
Fiber Type	Glass
Color	White
Fabric Construction	Unidirectional
Fiber Tensile Strength	470 ksi (3.24 MPa)
Fiber Tensile Modulus	10,500 ksi (72.4 GPa)
Fiber Rupture Strain	4.5%
Fabric Areal Weight	33 oz./yd <sup>2</sup> (1120 gsm)

### Notes:

1. Fiber properties are typical values of the fibers used in the manufacture of the reinforcing fabrics. They are reported here to provide the designer with a general understanding of the grade of fibers used in the reinforcing fabrics.

## Physical properties

PROPERTY	VALUE	TEST METHOD
Nominal Thickness <sup>2</sup>	0.050 inch (1.27mm)	ASTM D1777

## Mechanical properties

ACI 440.2 DESIGN PROPERTIES	VALUE	METHOD
Tensile Strength	66 ksi (460 MPa)	ASTM D3039
Tensile Modulus of Elasticity <sup>3</sup>	3.73 Msi (25.7 GPa)	ASTM D3039
Elongation at Break	1.8%	ASTM D3039
Tensile Strength/Unit Width	3.3 kip/in./ply (0.578 kN/mm/ply)	ASTM D3039 / ASTM D7565
Tensile Modulus/Unit Width <sup>3</sup>	187 kip/in./ply (32.7 kN/mm/ply)	ASTM D3039 / ASTM D7565

### Notes:

2. The laminate reported thickness is based on measurements made on panels prepared in the laboratory, per ASTM D1777. Actual thicknesses measured in the field may vary slightly. As with any FRP strengthening system, the strength/unit width and modulus/unit width should be used for design and for field QC purposes.

3. Modulus of elasticity and unit stiffness are reported as average values in accordance with ACI 440.2 and shall be used for design. They shall not be used for accepting/rejecting results of field QC test results.

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