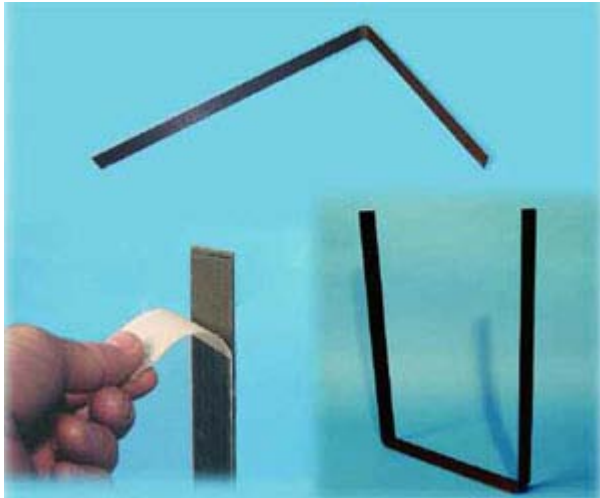


L-BRACKET STIRRUP



Product Description. The Fortress L Brackets are used to provide additional shear strength to existing concrete beams. For best results, the angles are embedded in the bottom of the slab and bonded to the sides and bottoms of the beams. Fortress L Brackets can be fabricated to any desired thickness and in a variety of widths and sizes to meet the specific requirements of the project. L Brackets can also be fabricated with various grades of carbon fiber for higher tensile modulus.



PRODUCT USE

The Fortress Stabilization Systems L-Bracket is manufactured in 2 halves to laminate into a single stirrup. The L-Bracket is a pre-preg, p-cured laminate w/peel-ply on both sides for superior secondary bonding. L-Brackets can be manufactured in different gsm strengths and dimensions per customer specifications of application.

Advantages

- ✧ High tensile and shear capabilities
- ✧ Ambient cure
- ✧ Color coded for proper metering
- ✧ Designed to be fairly ductile to transfer load to FRP
- ✧ Less than 5% air entrapment
- ✧ When combined with vacuum clamping laminate can have less than 1% air entrapment
- ✧ Will not sag on a vertical or overhead application
- ✧ 100% solids no vocs (volatile organic substances)

SPECIFICATIONS

PHYSICAL PROPERTIES

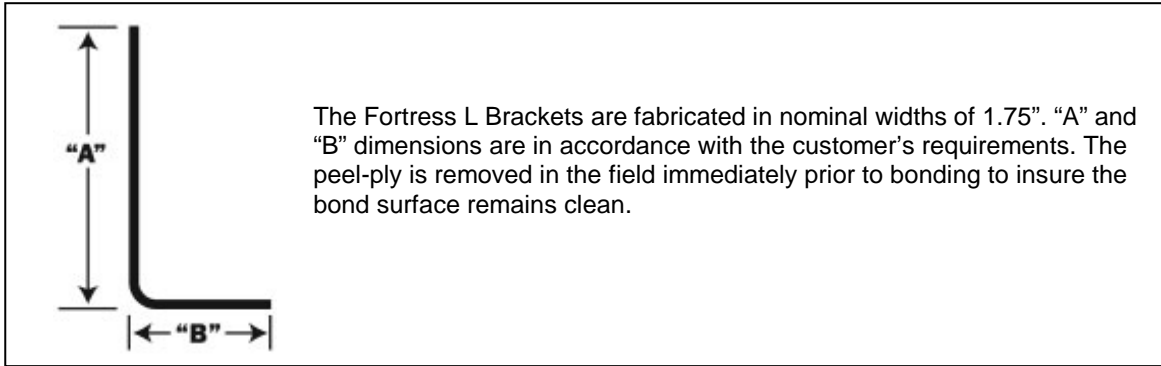
COMPOSITION	Carbon fiber and epoxy matrix.
COLOR	Black
SURFACE TEXTURE	Roughened, peel-ply surface
Vr	60-70%
Tg	>150°F
DELIVERY	Single pieces cut per order

MECHANICAL PROPERTIES

"A"	Per order
"B"	Per order
THICKNESS	0.055 inch (1.4 mm)
WIDTH	1.75 inch (44.4 mm)
TENSILE STRENGTH	320,000 psi (2190 MPa)
MODULUS OF ELASTICITY	22.4x10 ⁶ psi (155 GPa)
ELONGATION AT BREAK^a	1.4%

NOTES:

1. Reported data is based on a minimum of 25 coupon tests in accordance with ASTM 03039.
2. Elongation at break is calculated rather than measured. Actual rupture values will be higher than those reported.



Keep Out Of Reach of Children - Keep Container Tightly Closed - Not For Internal Consumption – For Industrial Use Only

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