FT-LDF Composite Fiberglass Tie Specifications

Fibre-Tie[™] Fiberglass Composite Concrete Wall Form Ties 7600 Upper 167th St W, Lakeville, MN 55044 www.fibretie.com

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Fibre-TieTM is a unique composite fiberglass product for use as a form panel tie with various concrete forming systems. It is an energy-efficient alternative to typical metal form ties used in popular concrete forming systems like Symons[®], EMI[®], Ellis[®] and similar steel modular concrete forming systems. The advantages over metal ties include: a natural insulator; magnetically transparent; no rust or corrosion, and no patching or plugging required; high strength; chemically resistant; RF transparent; low maintenance; fire resistant; dimensionally stable: low expansion and contraction; lightweight: pound for pound stronger than steel!

FT-LDF: A light- to medium-duty specially engineered fiberglass composite tie with a 2,000# load strength for use in shorter walls and low to moderate pressure applications. Standard sizes include 8", 10", 12", 14" and 16", but can be customized to your requirements.



Fibre-TieTM features state-of-the-art engineering using a specially formulated blend of superior-quality resins uniquely proportioned with extra strong fibers, manufactured to the highest standards by innovative fiberglass experts, and precision-milled for compatibility with your modular steel-framed form system. Our products are also unique in that they require no additional hardware for you to rent or purchase: Fibre-TieTM conveniently substitutes for the metal ties you already use with your Symons[®], EMI[®], Ellis[®] and other concrete forming systems. This saves you time and money because you don't have to field cut bulk fiberglass rod to your needs, nor modify your installation techniques, as the Fibre-TieTM is installed exactly as you would normal concrete form ties.

FT-LDF Material Mechanical Specifications:

Ultimate Tensile Strength:			ASTM D	-638	
(PSI)	Longitudinal	30,000		Transverse	6,500
Tensile	Modulus:		ASTM D-638		
(PSI)	Longitudinal	2.5x10 ⁶		Transverse	0.8 x 10 ⁶
Ultimat	e Compressive Str	ength:	ASTM D	-695 .	
(PSI)	Longitudinal	30,000		Transverse	15,000
Compre	essive Modulus:		ASTM D	-69	
(PSI)	Longitudinal	2.3x10 ⁶		Transverse	0.8x10 ⁶
<u>Ultimat</u>	e Flexural Strengt	<u>h</u> :	ASTM D	-790	
(PSI)	Longitudinal	30,000		Transverse	10,000
Flexura	l Modulus:		ASTM D	-790	
(PSI)	Longitudinal	1.6x10 ⁶		Transverse	0.8x10 ⁶
Shear S	trength Short Bea	<u>m</u> :	ASTM D-2344		
(PSI)	Longitudinal	4,500		Transverse	4,500
Impact	Strength Izod:		ASTM D	-256	
Ft-lb/in	Longitudinal	25		Transverse	4
<u>Hardness – Barcol</u> :			ASTM D-2583		
	Perpendicular	50			
Mechanical—Full Section Bending: Modulus of Elasticity:					
(PSI)	Longitudinal	2.5x10 ⁶			
Electric Strength Short Time(In Oil): ASTM D-149					
Perpendicular: 200 Volts/mil Parallel: 35 KV/in					
Thermal Co-Efficient of Expansion: ASTM D-149					
Longitudinal 5x10 ⁻⁶ in/in/ ⁰ C					
<u>Thermal Conductivity</u> : Longitudinal BTU/hr/sq ft/in/ ^o F: 4.0					
Water Absorption (24 Hours): ASTM D-570					
Longitudinal (%)			0.6 Max		
Density: ASTM D-792 Longitudinal Ibs/in ³ .0656					
Color: Off-White/very light gray					
Load Test to Milled Pin Slots: minimum 2,000 lbs. to initial failure					
(See attached documentation from American Engineering Testing Inc)					