# Strong-Seal<sup>®</sup> Fiberglass Wrap of 2.50 pcf CCA Treated Wood Technical Data

#### Sawn Material

## SPIB Design Values for - Southern Yellow Pine – Timbers 5" x 5" and Larger

	Extreme Fiber in Bending (psi)	Tension Parallel to Grain (psi)	Horizontal Shear (psi)	Compression Perpendicular to Grain (psi)	Compression Parallel to Grain (psi)	Modulus of Elasticity (psi)
<u>No. 1 Grade</u>	1,350	900	165	375	825	1,500,000
<u>No. 2 Grade</u>	850	550	165	375	525	1,200,000

#### **Round Timber Piling**

## Allowable Stress Values for Treated Round Southern Yellow Timber Piles – Per ASTM D-25

Axial Compression, psi	1,200
Bending, psi	2,400
Shear Perpendicular to the Grain, psi	110
Compression Perpendicular to the Grain, psi	250
Modulus of Elasticity, psi	1,500,000

## **Strong-Seal® Fiberglass Coating**

Multiple layers of Fiberglass used with a Resilient Isophthalic Polyester Resin. Absorption of Ultraviolent Radiation in the 300 – 400 nm region Minimum Total Thickness of Strong-Seal<sup>®</sup> Coating is 1.75 mm on both Square Timbers & Round Piling.

Typical Physical Properties of Cured Strong-Seal<sup>®</sup> Resin Castings at 77<sup>0</sup>, Far.

<u>Test</u>	<u>Value</u>	<u>Test Method</u>
Barcol Hardness	40	ASTM D-2583
Tensile Strength, psi	12,500	ASTM D-638
Tensile Modulus, psi x 10 <sup>5</sup>	5.2	ASTM D-638
Tensile Elongation, %	4.4	ASTM D-638
Flexural Strength, psi	20,000	ASTM D-790
Flexural Modulus, psi x 10 <sup>5</sup>	5.4	ASTM D-790
Compressive Strength, psi	21,800	ASTM D-695
Compressive Modulus, psi x 10 <sup>5</sup> , psi	4.8	ASTM D-695
Deformation at Yield, %	7.3	ASTM D-695
Izod Impact, Ft-Lbs/in.	2.1	ASTM D-256
Heat Deflection Temperature, <sup>0</sup> F	202	ASTM D-648

Physical properties are defined by ASTM testing standards and/or standard engineering practices. The values shown are nominal and may vary. The information found in this document is believed to be true and accurate. No warranties of any kind are made as to the suitability of any Wood Preservers, Inc. product for specific applications or the results of use there from. The design strength of the structure should be based on the design value of the wood, and should <u>not</u> be increased with the use of Strong-Seal<sup>®</sup>.