STRONG – SEAL®

Wood Preservers, Inc.
Warsaw, Virginia

Strong-Seal® 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)
No. 1 Grade	1,350	900	165	375	825	1,500,000
No. 2 Grade	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® Coating is 1.75 mm on both Square Timbers & Round Piling.

Typical Physical Properties of Cured Strong-Seal® Resin Castings at 77^0, Far.

Test	Value	Test Method
Barcol Hardness	40	ASTM D-2583
Tensile Strength, psi	12,500	ASTM D-638
Tensile Modulus, psi x 10^5	5.2	ASTM D-638
Tensile Elongation, %	4.4	ASTM D-638
Flexural Strength, psi	20,000	ASTM D-790
Flexural Modulus, psi x 10^5	5.4	ASTM D-790
Compressive Strength, psi	21,800	ASTM D-695
Compressive Modulus, psi x 10^5, 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, ^{0}F	202	ASTM D-648