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COMPARISON CHART

	FRP Structural Shapes	FRP Rod and Bar	Steel	Stainless Steel	Aluminum	PVC	Douglas Fir	Redwood
Specific Gravity.....	1.6 - 1.75	1.9 - 2.0	7.85	7.97	2.5	1.38	0.51	0.42
Density (lbs/in ³).....	.07 - .075	.062 - .070	0.284	0.29	0.098	0.05	0.019	0.015
Coefficient of Linear Thermal Expansion 10 ⁶ in./in./F.....	8	6	6.5	10	13	40	2	3
Ultimate Strength (psi).....	30,000	90,000	60,000	80,000	30,000	6,800	12,000	8,900
Modulus of Elasticity (psi).....	2.8 x 10 ⁶	4.0 x 10 ⁶	30 x 10 ⁶	29 x 10 ⁶	10 x 10 ⁶	38 x 10 ⁶	1.5 x 10 ⁶	1.2 x 10 ⁶

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