

■ PHYSICAL PROPERTIES OF CYPRESS AND WESTERN RED CEDAR

	Cypress	Western Red Cedar
Specific Gravity (<i>>12% Moisture Content</i>)	.46	.32
Density (<i>lbs/ft³</i>)	31.4	22.4
Static Bending – 12% MC <i>Modulus of Rupture (lb/ft²)</i>	10,600	7,500
<i>Modulus of Elasticity</i>	1.44	1.11
<i>Work to Maximum Load (in-lb/ft³)</i>	8.2	5.8
Impact Bending – 12% MC <i>Height of drop causing complete failure (in)</i>	24	17
Compression Parallel to Grain – 12% MC <i>Maximum crushing strength (lb/ft²)</i>	6,360	4,560
Compression Perpendicular to Grain – 12% MC <i>Fiber stress at proportional limit (lb/ft²)</i>	730	460
Tension Perpendicular to Grain – 12% MC <i>Maximum tensile strength (lb/ft²)</i>	270	220
Shear Parallel to Grain – 12% MC <i>Maximum shearing strength (lb/ft²)</i>	1000	990
Side Hardness (<i>lbs</i>) (<i>Load required to embed a 0.444 ball to half its diameter</i>)	510	350
Flame Spread Rating	145-150	70

Source: Wood Handbook, USDA Agriculture Handbook 72

NOTE: These are clear, defect-free properties not to be used for design properties.