

PHYSICAL PROPERTIES	VALUE	TEST STANDARD
Thermal Conductivity (12mm / ½")	'K' value 1.054 BTU/hr-ft ² - °F 'R' value 0.447 hr-ft ² -°F/BTU	ASTM C518
Coefficient of Linear Thermal Expansion (12mm / ½")	0.589 x 10 ⁻⁵ per °F 1.06 x 10 ⁻⁵ per °C	ASTM D696
Density – Oven Dry	77 lbs. per cu. ft.	ASTM D1037
Moisture Content	6.8%	ASTM D1037
Linear Variation With Change In Moisture 50% to 90% relative humidity: Parallel to fibers Perpendicular to fibers	0.06% 0.09%	ASTM D1037
Saturated Thickness Swelling (24 hour water immersion)	0.51%	ASTM D1037
PH Value	12	Manufacturer
Water Vapor Permeance	3.93 Perm-Inches 6.342 US Perms	ASTM E96
Formaldehyde Content	Zero	EN 120
Asbestos Content	Zero	EN 120
Silica Content	Zero	EN 120
Frost Resistance	No Effect – 50 cycles Freeze/Thaw	EN 112
Rot & Termite Resistance	Resistant to destruction	100% Resistant

MECHANICAL PROPERTIES	VALUE	TEST STANDARD
Modulus of Elasticity, psi	717,800	ASTM C120
Modulus of Rupture, psi	1,840	ASTM C120
Shear Strength, psi	1,424	ASTM D732
Tensile Strength, psi	667	ASTM D1037
Compressive Strength, psi	4,852	ASTM D1037
Impact Strength, Izod Method	0.4607	ASTM D256
Permissible Design Value, psi	326	Manufacturer

COMBUSTION CHARACTERISTICS	VALUE	TEST STANDARD
Noncombustible	Passed Ten Minute Duration	ASTM E136
Flame Spread / Smoke Development	Zero / Zero	ASTM E84*
Fire Resistance Ratings	1 & 2 hour Floor/Ceiling Assemblies	ASTM E119