

Technical Specs

PaperStone Certified is made of 100% FSC-Certified recycled paper, water-based phenolic resin with cashew nut shell binder and pigment. Heat and pressure transform this mixture into a thoroughly impregnated network of cellulose fibers that give PaperStone its hardness, density and strength in span or cantilevered designs.

PaperStone Specifications

Water absorption (by weight)	0.82%
Density (g/cm ³)	1.4-1.45%
Internal bond (psi)	1,225 lbs.
Modulus of rupture (flexibility)	
Face	
X direction	24,320 psi
Y direction	24,080 psi
Edge	
X direction	21,834 psi
Y direction	21,413 psi
Modulus of Elasticity	
X direction	1724.25 ksi
Y direction	1666.58 ksi
Compressive strength	
Z direction (face)	45,324 psi
X direction	23,200 psi
Y direction	22,560 psi
Coefficient of Thermal Expansion	
Z direction	2.62
X direction	3.64
Y direction	3.48
Izod impact strength	
Face	
X direction (ft/lb/inch-width)	3.29
Y direction (ft/lb/inch-width)	2.76
Edge	
X direction (ft/lb/inch-width)	.73
Y direction (ft/lb/inch-width)	.75
Hardness test	
Barcole meter (Barber Coleman)	47 avg.
UV exposure	Slight darkening for light colors, dark colors are stable
Formaldehyde (less than 1 part per million)	No detected residues

ASTM E84 Fire Test Results

Flamespread Index:	(20) Class A Rating
Smoke Developed Index:	(110) Class A Rating