

Appalachian Testing Data, and Load Specifications

Properties

Property	Requirement	Results
Weight		4.76 lbs / linear foot
Density		144 lb / cubic foot
Temperature/Moisture Effect	ICC-ES AC174	Meets Code
Creep Relaxation	ICC-ES AC174	Meets Code
UV Resistance	ICC-ES AC174	Meets Code
Resistance to surface abrasion	ASTM C1027	Class 4
Scratch Resistance	ASTM C1895	Class 7
Breaking Strength	ASTM C648	2555 lbf
Water Absorption	ASTM C370	< 0.1%
Chemical resistance	ASTM C650	Class A
COF of Linear Thermal Expansion	ASTM C372	$5,5 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$
Resistance to stains	ASTM C1378	Class A
Dynamic coefficient of friction	ANSI 326.3	0.7 (R11)
	ASTM C373	< 0.2%
Freeze-Thaw Resistance	ASTM C1026	No Damage
Reaction to fire	UNE-EN 13501-1	A1 (No reaction)

Tolerances

Property	Requirement	Results
Width	ASTM C499	± 0.04" (1 mm)
Length	ASTM C499	± 0.04" (1 mm)
Thickness	ASTM C499	± 0.04" (1 mm)
Straightness of sides	ASTM C502	± 0.08" (2 mm)
Rectangularity	ASTM C502	± 0.06" (1.5 mm)
Lateral curvature	ASTM C485	± 0.06" (1.5 mm)
Warpage	ASTM C485	± 0.08" (2 mm)

Solar Reflective Index (SRI) - ASTM E1980-11

Color	Solar Reflectance	Solar Absorptance
Silver Maple	0.48	0.52
American Walnut	0.32	0.68

Live Load Limits

	Load	Span
Maximum Capacity	400 lbf	12" O.C.
Maximum Capacity	300 lbf	16" O.C.

Use on stairs

Concentrated load	300 lbf	12" O.C.
Concentrated load	300 lbf	16" O.C.