

Appalachian Testing Data, and Load Specifications

Properties

Property	Requirement	Results
Weight	ASTM D6111	4.5 lbs / linear 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	UNE-EN-ISO 10545-7	PEI III
Compressive Modulus	ASTM D6108	4061 PSI
Moisture expansion	UNE-EN-ISO 10545-10	< 0.1 mm/m
Chemical resistance	UNE-EN-ISO 10545-13	HA/LA
COF of Linear Thermal Expansion	ASTM D696	$5,3 \times 10^{-6} \text{ oC}^{-1}$
Resistance to stains	UNE-EN-ISO 10545-14	Class 5
Dynamic coefficient of friction	ANSI A137.1	0.7
Water Absorption	ANSI A137.1	< 1%
Reaction to fire	UNE-EN 13501-1	A1 No reaction

Tolerances

Property	Requirement	Results
Width	UNE-EN-ISO 10545-2	± 0.04 ^{mm} (1 mm)
Length	UNE-EN-ISO 10545-2	± 0.04 ^{mm} (1 mm)
Thickness	UNE-EN-ISO 10545-2	± 0.04 ^{mm} (1 mm)
Straightness of sides	UNE-EN-ISO 10545-2	± 0.06 ^{mm} (1.5 mm)
Rectangularity	UNE-EN-ISO 10545-2	± 0.06 ^{mm} (1.5 mm)
Lateral curvature	UNE-EN-ISO 10545-2	± 0.06 ^{mm} (1.5 mm)
Warpage	UNE-EN-ISO 10545-2	± 0.08 ^{mm} (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 / sq. ft.	12 ^{mm} O.C.
Maximum Capacity	300 lbf / sq. ft.	16 ^{mm} O.C.
Maximum Capacity	100 lbf / sq. ft.	24 ^{mm} O.C.

Use on stairs

Concentrated load	300 lbf	12 ^{mm} O.C.
Concentrated load	300 lbf	16 ^{mm} O.C.