

Physical Performance & Dimensional Stability

Tested Standard	What It Tests For	Result	What It Confirms
ASTM F1066-04 & ASTM F1265-03a	Impact	Pass	Verifies the plank takes hard knocks without cracking
ASTM F1265	Impact Resistance	Pass	Measures resistance to cracking when struck by dropped objects
ASTM F1700	Dimensional Stability	Pass	Verifies planks hold their size and shape rather than shrinking, expanding, or gapping over time
ASTM F1066-04 & ASTM F2199-09	Dimensional Stability	Pass	Confirms minimal expansion/contraction
EN ISO 23999:2012	Dimensional Stability & Curling (Heat @ 176F)"	.05% and 0.1 mm	Proves planks stay flat and stable under sustained heat
EN ISO 24345:2012	Peel / Bond Resistance	Pass (~70 N avg)	Measures how strongly the layers stay bonded
ASTM F1066-04 & ASTM F1914-07	Indentation	Pass	Confirms the floor resists denting from concentrated loads and recovers afterward
ASTM F970	Residual Indentation	Pass	Tests recovery from heavy static loads (furniture, appliances)
EN ISO 23996:2012 (Method A)	Density	2.00 g/cm³	Confirms a dense, solid core
EN 13893	Slip Resistance	Class DS	Rates traction underfoot
STC - ASTM E90 / ASTM E413	Airborne Sound Transmission	60	Confirms the tested assembly helps reduce airborne sound transfer, such as voices, television, music, and other sounds traveling through the floor-ceiling assembly.
IIC - ASTM E492 / ASTM E989	Impact Sound Transmission	62	Confirms the tested floor-ceiling assembly reduces impact noise transfer, such as footsteps, dropped objects, chair movement, and other floor-contact sounds transmitted to the space below.
HIIC - ASTM E492 / ASTM E3222	High-Frequency Impact Sound	65	Confirms the tested assembly helps reduce higher-frequency impact noise, such as heel clicks, pet nails, light tapping, and similar sharp impact sounds transmitted to the space below.

Fire & Appearance

ASTM E662	Smoke Density	Pass	Measures low smoke generation if exposed to fire
ASTM F1066-04 & ASTM F1514-03	Resistance to Heat	Pass (ΔE 1.08)	Proves the color and structure hold up under prolonged heat exposure
ASTM E648-06	Behavior to Fire (critical radiant flux)	Class 1	Measures how the floor resists flame spread
EN 13501-1 (via EN ISO 9239-1 + EN ISO 11925-2)	Reaction to Fire classification	Class Bfl-s1	The European fire-safety classification
ISO 105-B02:2014 (Xenon-arc)	Colour Fastness to Light	Above Grade 6	Confirms the floor resists fading from sunlight/UV
ASTM F1515	Color Fastness to Artificial Light	Pass	Confirms the floor resists fading and color change from sunlight/UV

Chemical, Environmental & Safety

ASTM F25	Chemical Resistance	Pass	Demonstrates that the surface resists common household chemicals, cleaners, and spills without dulling, staining, or material degradation
CPSC-CH-C1001-09.4 (CA Prop 65)	Phthalates (6P)	Pass (all ND)	Dibutyl Phthalate (DBP), Benzyl Butyl Phthalate (BBP), Di(2-ethylhexyl) Phthalate (DEHP), Diisononyl Phthalate (DINP), Diisodecyl Phthalate (DIDP), and Dihexyl Phthalate (DHEXP/DnHP)
EN 14372:2004	Phthalates (45-substance screen)	All phthalates ND	Confirms that all 45 screened phthalates were not detected, supporting material safety and restricted-substance compliance
ASTM F963-17 (Cl. 4.3.5) / CPSC-CH-E1002-08.3	Total Lead + 8 Soluble Heavy Metals	Pass (all ND)	Lead (Pb), Antimony (Sb), Arsenic (As), Barium (Ba), Cadmium (Cd), Chromium (Cr), Mercury (Hg), and Selenium (Se)
EN 71-3:2019+A1:2021	Migration of Certain Elements	Pass	Confirms the product passes European testing for the migration of certain elements, supporting safety for environments where children may be present

Certifications

CE Marking / EU Declaration of Conformity 	EU regulatory compliance standards	Certified	Verifies that the product meets applicable European Union health, safety, performance, and environmental requirements, supporting compliance confidence for regulated markets.
FloorScore (SCS-EC10.3 / SCS-FS) 	Indoor Air Quality Certification	Certified	Verifies compliance with FloorScore indoor air quality certification requirements, including low VOC emissions testing under SCS-EC10.3 / SCS-FS standards.

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