

PHYSICAL PROPERTIES & PACKAGING (FLOATING MULTILAYER MODULAR FLOORING - 0.205" GAUGE / 20MIL WEAR LAYER)

Construction Extruded Core Pre-Attached Underlayment	4.2mm (0.165") Solid Polymer Core (SPC) 1.0mm (0.039") HDPE
Use	Commercial & Residential (Refer to Recommended Use PDF for Recommended Areas)
Size	8.66" x 59.44" (220mm x 1510mm)
Wear Layer	20mil (0.5mm)
Edge Detail	Accent Bevel
Finish	FX ² Surface Protectant
Emboss	Natural Timber
Gauge	5.2mm (0.205")
Pieces/Carton	6
Coverage/Piece	3.57 Sq.Ft. (0.332 Sq.M.)
Coverage/Carton	21.45 Sq.Ft. (1.99 Sq.M.)
Coverage/Pallet	52 Cartons / Pallet (1,115.29 Sq.Ft. / 103.65 Sq.M.)
Coverage/Container	20 Pallets / Container (22,305.85 Sq.Ft. / 2,072.93 Sq.M.)
Limited Warranty	15-Year Commercial / Lifetime Residential

STANDARDS – SAFETY & PERFORMANCE

Standard	Description	Requirements	Results
ASTM E648	Critical Radiant Flux (Radiant Panel)	Class I: $\geq 0.45 \text{ W/cm}^2$	Passes Requirements ¹
ASTM E662	Smoke Density	Flaming & Non-Flaming ≤ 450	Passes Requirements ²
CDPH/EHLB Standard Method v1.2	VOCs/TVOCs, Formaldehyde	Refer to Standard	Passes Requirements
REACH SVHC 181	Substances of Very High Concern	Per Substance: $\leq 0.1\% \text{ w/w}$ (weight/weight)	Passes Requirements
ASTM F963	Heavy Metals	Refer to Standard	Passes Requirements
ASTM D7823 / CPSC-CH-C1001-09.3	Phthalates	Refer to CPSIA ³	Passes Requirements
ASTM D2047	Coefficient of Friction / Slip Resistance	N/A (No Official Requirements)	≥ 0.6 (Dry)
ANSI ESD STM97.2	Body Voltage	N/A (No Official Requirements)	Average (Abs): $\leq 2.0\text{kV}$
ASTM D4060	Abrasion Resistance	N/A (No Official Requirements)	$\geq 20,000$ cycles

STANDARDS – SOUND

Standard	Description	Assembly	IBC Requirements ⁴	Results
ASTM E90 & ASTM E413	Airborne Sound Transmission Loss of Building Partitions and Elements (STC / Sound Transmission Class)	6" Concrete Slab	STC ≥ 50	STC 50 (Passes Requirements)
		6" Concrete Slab + Drop-Ceiling	STC ≥ 50	STC 61 (Surpasses Requirements)
ASTM E492 & ASTM E989	Impact Sound Transmission Through Floor-Ceiling Assemblies (IIC / Impact Insulation Class)	6" Concrete Slab	IIC ≥ 50	IIC 52 (Surpasses Requirements)
		6" Concrete Slab + Drop-Ceiling	IIC ≥ 50	IIC 67 (Surpasses Requirements)
ASTM E2179 & ASTM E989	Effectiveness of Floor Coverings in Reducing Impact Sound Transmission (Δ IIC / Δ Impact Insulation Class)	6" Concrete Slab	N/A	Δ IIC 23

STANDARDS – MANUFACTURING & USAGE (ASTM F3261)			
Standard	Description	Requirements	Results
ISO 24337	Size	Tolerance - Width of 8.66" (220mm) ±0.016" (0.40mm) Tolerance - Length of 59.44" (1510mm) ±0.080" (2.0mm)	Passes Requirements
ASTM F2421	Squareness	≤0.010" (0.25mm)	Passes Requirements
ASTM F387	Thickness	With Foam Back Layer Tolerance: ±0.008" (0.2mm) vs. Specified Minimum: 0.080" (2.0mm)	Passes Requirements
ASTM F410	Wear Layer Thickness	Commercial Classification: ≥ 20mil (0.5mm)	Passes Requirements
ISO 24337	Flatness	Max. Values - Width of 8.66" (220mm) F _w ±0.008" (0.2mm) F _{I concave} ≤ 0.15%; F _{I convex} ≤ 0.20%	Passes Requirements
ISO 24337	Openings	Average (O _{Avg}) ≤ 0.004" (0.1mm) Maximum (O _M) ≤ 0.008" (0.2mm)	Passes Requirements
ISO 24337	Ledging	Average (H _{Avg}) ≤ 0.004" (0.1mm) Maximum (H _M) ≤ 0.006" (0.15mm)	Passes Requirements
ASTM F1914	Residual Indentation	Average: ≤0.007" (0.18mm)	Surpasses Requirements
ASTM F1914	Surface Integrity	No puncture through wear layer / décor into rigid core	Passes Requirements
ISO 23999	Dimensional Stability	≤0.2% / lineal ft. (305 mm)	Surpasses Requirements
ISO 23999	Curling	≤0.080" (2.0mm)	Surpasses Requirements
ASTM F925	Chemical Resistance	No more than "Slight Change"	Surpasses Requirements
ASTM F1514	Resistance to Heat	Average ΔE < 8.0	Surpasses Requirements
ASTM F1515	Resistance to Light	Average ΔE < 8.0	Surpasses Requirements
ASTM F970	Static Load	≤0.005" (0.13mm), 250psi	Passes Requirements
SIM Test	Static Load Limit	Test to Limit (±0.005")	≥1,000psi

Footnotes
 1) ASTM E648 - Critical Radiant Flux (Radiant Panel): Passes Requirements for Class I per International Building Code (IBC) 2018 & NFPA 101 Life Safety Code
 2) ASTM E662 - Smoke Density: 450 is the limit established by many state, county, and/or local building and/or fire codes, but is not set as a limit for (resilient) flooring products nationwide. Thus, Smoke Density requirements for flooring products may vary from jurisdiction to jurisdiction. Consult your building inspector / fire marshal to learn more.
 3) CPSIA = Consumer Product Safety Improvement Act
 4) IBC = International Building Code