

TECHNICAL DATA SHEET

ORIGINS SOLUTIONCORE PHYSICAL PROPERTIES & PACKAGING (12MIL WEAR LAYER)

Construction	
Extruded Vinyl Core	3.7mm Stone plastic composite
Top Layer	0.3mm(12mil) Wear Layer
Pre-Attached Underlayment	1.0mm IXPE
Use	Commercial & Residential
Size	7"×48"
Wear Layer	12mil (0.3mm)
Finish	Medium Grain Embossing
Gauge	5.00mm
Pieces/Carton	11
Coverage/Piece	2.34 Sq.Ft
Coverage/Carton	25.7 Sq.Ft
Coverage/Pallet	65 Cartons (1670.5 Sq.Ft)
Coverage/Container	16 Pallets (26728 Sq.Ft)
Limited Warranty	10-Year Light Commercial/25 Residential

NORTH AMERICAN STANDARDS – SAFETY & PERFORMANCE

Standard	Description	Requirements	Results
ASTM E648	Radiant Panel (Critical Radiant Flux)	Class 1: $\geq 0.45 \text{ W/cm}^2$	Passes Requirements
ASTM E662	Smoke Density	Flaming & Non-Flaming ≤ 450	Passes Requirements
ASTM D2047	Coefficient of Friction (Slip Resistance)	N/A	≥ 0.6 (Dry)
ASTM G21 ¹	Antifungal Activity	N/A	Top:0-1;Bottom:0
ASTM F963	Heavy Metals	Refer to Standard	Passes Requirements
ASTM F970	Static Load Limit	$\pm 0.005"$, 250-Lbs. Load	≥ 500 lbs. (Surpasses Requirements)
ASTM F925	Chemical Resistance	No more than "Slight Change"	Surpasses Requirements
ASTM F1514	Resistance to Heat	Average & Max $\Delta E < 8.0$	Surpasses Requirements
ASTM F1515	Resistance to Light	Average & Max $\Delta E < 8.0$	Surpasses Requirements
ASTM F410	Wear Layer Thickness	Commercial: ≥ 12 mil (0.3mm)	Passes Requirements
ASTM D4060 ²	Abrasion Resistance	N/A	Average: 12000 cycles

NORTH AMERICAN STANDARDS – SOUND

Standard	Description	Requirements	Results
ASTM E90 & ASTM E413	Airborne Sound Transmission Loss	Sound Transmission Class (STC) ≥ 50	STC 72
ASTM E492 & ASTM E989	Impact Sound Transmission	Impact Insulation Class (IIC) ≥ 50	IIC 58 (Surpasses Requirements)

NALFA/ANSI STANDARDS (LF-01-2011) – PERFORMANCE

Standard	Description	Class 1 (Residential)	Class 2 (Light Comm.)	Class 3 (Commercial)	Class 4 (Heavy Comm.)	Meets Requirements
Section 3.2	Thickness Swell	$\leq 18\%$	$\leq 16\%$	$\leq 16\%$	$\leq 12\%$	Classes 4
Section 3.5	Large Ball Impact Resistance	$> 800\text{mm}/31.5"$	$> 1000\text{mm}/39.4"$	$> 1200\text{mm}/47.3"$	$> 1400\text{mm}/55.1"$	Classes 3
Section 3.6	Small Ball Impact Resistance	$> 200\text{mm}/7.9"$	$> 200\text{mm}/7.9"$	$> 350\text{mm}/13.8"$	$> 500\text{mm}/19.7"$	Classes 3
Section 3.10	Surface Bonding	1N/mm ²	1.25N/mm ²	1.25N/mm ²	1.5N/mm ²	Classes 3

NORTH AMERICAN STANDARDS –SUSTAINABILITY

Standard(s)	Description
FloorScore	This product is FloorScore Certified (SCS-FS-03340) .