

Technical Data Sheet (SPC Flooring--Optimus)

Technical Specification	Standard		Result	
Warranty			Residential: Lifetime Commercial: 15 Years	
Surface Treatment			Stain resistant, UV protection, skid resistance	
Profile			Micro-Bevelled	
Plank Size	EN 427		48"×7"	
Total Thickness (mm)	EN 428		5.0mm	
Wearlayer Thickness (mm)	EN 429		0.5mm	
Fire Rating	EN 13501-1		Bfl-s1	
	Makel Burner Test		Pass	
Heat Stability	KSM 3802		0.03% (80°C, 6hr)	
Slip Resistance	BS 7976-2		Pendulum Test: Low	
			Rz Surface Roughness: Moderate	
Residual Indentation	EN 433		≤0.1	
Color Fastness	ISO 105-B02		≥ 6	
Dimensional Stability	EN 434		≤0.25%	
Flexibility	EN 435		No Crack was found	
Electrial Behavior	EN 1081		Pass	
STC/IIC	68/65		Pass	
Effect of 1mm IXPE padding	Water proof, Sound absorption, Noise reduction		Pass	
Castor Chair Resistance	ISO 4918:2016		After 25000 cycles, no visible damage.	
Characteristics	Standard			
	EN	Result	ASTM	Result
Size	EN 427	Pass	ASTM F536	Pass
Overall Thickness	EN 428	Pass	ASTM F386	Pass
Wearlayer Thickness	EN 429	Pass	ASTM F410	Pass
Dimension Squareness and Straightness	EN 427	Pass		
		Squareness: 0.18mm		
		Straightness: 0.07mm		
Chemical Resistance	EN 423	Pass	ASTM F 925 ASTM F 1344	Pass
Color Fastness to Artificial Light	EN 20105: B02 Method A	Pass, Grade ≥ 6	ASTM F 1515	Pass
Heat Stability to Color Change			ASTM F1514	Pass
Castor Chair Stability	EN 425	Pass		
Residual Indentation	EN 433	Pass, 0.06mm	ASTM F1914	Pass
			ASTM F 970	
Abrasion Group	EN 660-1/2	Group T	ASTM F 510	Pass
			ASTM D 3384	
Impact Resistance			ASTM F 1265	Pass
			ASTM D 2632	
Dimensional Stability	EN 434	Pass	ASTM F 2199	Pass. 0.1%
Sound Reduction	EN ISO 717-2	2dB		
Flexibility	EN 435 Method A	Pass	ASTM F 137	Pass
Slip Resistance	EN 13893	Class DS	ASTM D 2047-93	Pass
Electrial Resistance	EN 1081 Method C	Pass	ASTM F 150-06	Pass
Thermal Resistance	EN 12664	Pass		
Toxic Element Test	EN 71-3	Pass, Not toxic, Does not contain Heavy Metal , Formaldehyde and Phthalates	ASTM F 963-17	Pass
Behaviour to Fire	EN ISO 11925-2	Bfl-s1	ASTM E 648-06	Pass/Class 1
	EN 13501-1			
	EN ISO 9239-1			
Smoke Density			ASTM E 662	Pass. <450