



TRU-STONE

PREMIUM EUROPEAN SPC FLOORS

TECHNICAL SPECIFICATIONS EN 16511

Loose-laid panels-Semi-rigid multilayer modular floor (MMF) covering panels with wear resistant top layer

SPC (STONE POLYMER COMPOSITE) VINYL FLOORING TOTAL 5MM THICK - 4 mm + 1 mm IXPE with 0,55 mm Wear Layer

DIMENSIONS		
Thickness	5.00 mm · $t_{max} - t_{min} \leq 0.50$ mm	
Plank Sizes	228.6 x 1219.2mm (9" x 48") 181.1 x 1219.2mm (7.13" x 48") 305 X 915MM (12" x 36")	
Length	1219.2 mm (Alternative 915mm) · $l_{max} - l_{min} \leq 0.50$ mm	
Width	228.6 mm (Alternative: 181.1mm & 305mm) ± 0.10 mm · $w_{max} - w_{min} \leq 0.20$ mm	
Density	2000(kg/m ³)	
Wear Layer	22mil(0.55mm)	
Underlayment	1mm IXPE	
TOLERANCE		
Squareness	EN 16511	≤ 0.20 mm
Straightness	EN 16511	≤ 0.30 mm / m
Flatness Crosswise	EN 16511	Concave: $\leq 0.15\%$ · convex: $\leq 0.20\%$
Flatness Lengthwise	EN 16511	Concave: $\leq 0.50\%$ · convex: $\leq 1.00\%$
Openings between Elements	EN 16511	Average: ≤ 0.15 mm · max: ≤ 0.20 mm
Height Difference between Elements	EN 16511	Average: ≤ 0.10 mm · max: ≤ 0.15 mm
TEST		
Certifications and Tests	Tested and Certified by	Intertek, Eurofins, Eurolab, TFI, TÜV Rheinland, TSI, Professional Testing Laboratory
Beveled Edges	YES	Yes -Micro Bevel
Surface treatment	YES	Ultimate Shield UV Coating
Click System	YES	Patented UNILIN UNICLIC and I4F DROP LOCK
Heat Stability	ASTM F1514	PASS
Light Stability	ASTM F1515	PASS
Resistance to Chemicals	ASTM F925	PASS
Usage Classification	EN 16511	Class 23 / Class 33
Assessment of the surface resistance to micro scratching	EN16094 Procedure A	MSR-A1
Assessment of the surface resistance to micro scratching	EN16094 Procedure B	MSR-B1



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Resistance to staining	EN 438-2	PASS (Class 5)
Abrasion Resistance Method B	EN 16511	≥ 3000 cycles
Impact Resistance	EN 16511	≥ 1800 mm
Castor Chair Test	ISO 4918	PASS (No change in appearance after 25.000 cycles)
Effect of Furniture Leg	EN 16511	PASS (No visible damage)
Thickness Swelling	EN 16511	PASS (No swelling)
Residual Indentation	EN 16511 / ASTM F1914	PASS (PSI Equivalent > 5,000 lbs.) (≤0.01mm)
Dimensional Stability	EN 16511 / ASTM F2199	PASS (≤ 0.15 %)
Floor Heating System	Yes suitable, see separate installation instructions.	Max. 27° C
Locking Strength	EN ISO 24334	PASS (2.77 kN/m (length); 2.64 kN/m (width))
ENVIRONMENT		
Emission of Formaldehyde	CDPH	PASS
TVOC Range	TVOC	PASS (0.092 mg/(m ² h))
PHYSICAL BEHAVIOR		
Fire Behavior	EN 13501-1	Bfl-s1
Slide Resistance	EN 13893 / EN 16165	DS / R10
Thermal Resistance	EN 12667	0.034 (m ² K)/W
Electrostatic Behavior	EN 1815	Antistatic Floor Covering
SOUND ABSORPTION AND IXPE UNDERLAY QUALITIES		
Impact Sound Reduction with 1mm IXPE Underlay	EN ISO 717-2	19 dB
Calculated Impact Insulation Class	ASTM E492-09	IIC 73 – drop ceiling / 54 – 6” slab
Calculated Sound Transmission Class	ASTM E90-09	STC 72– drop ceiling / 54 – 6” slab
IXPE Underlay Density	ASTM D4819-13 and ASTM D3575- 20	Average: 111.3 kg/m ³

The data sheet is updated regularly to meet new technological standards. This version replaces all previous versions as well as those which are undated. SPC RIGID CORE Flooring of floating installation, Level of use according to EN 16511: Class 33 FOR FLOORING TO BE USED IN LIVING AREAS AND COMMERCIAL PREMISES

- **CANADA SHOWROOM & DISTRIBUTION CENTER:** 8 Tracey Blvd Brampton ON L6T 5R9, Canada
- **USA DISTRIBUTION CENTER:** 46 Holland Industrial Park Road, Statesboro GA 30461, USA
- **SPC FLOOR & WALL PRODUCTION FACILITY:** Turanköy Mahallesi Bulut Sokak #1/A Kestel, Bursa, Turkey
- **NATURAL STONE & WALL SPC PRODUCTION FACILITY:** Organize Sanayi Bölgesi 1 Cad, 9 Sk, #8, Afyon, Turkey

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TECHNICAL SPECIFICATIONS EN 16511

Loose-laid panels-Semi-rigid multilayer modular floor (MMF) covering panels with wear resistant top layer

SPC (STONE POLYMER COMPOSITE) VINYL FLOORING 7MM THICK - 5.5 mm Core + 1.5 mm IXPE with 0,55 mm Wear Layer

DIMENSIONS		
Thickness	7.00 mm · $t_{max} - t_{min} \leq 0.50$ mm	
Plank Sizes	228.6 x 1219.2mm (9"x48") 228.6 x 1493mm (9"x60") 305 x 915mm (12"x 36")	
Length	1219.2 mm (Alternative: 1493mm 915mm) · $l_{max} - l_{min} \leq 0.50$ mm	
Width	228.6 mm(Alternative 305mm) ± 0.10 mm · $w_{max} - w_{min} \leq 0.20$ mm	
Density	2000(kg/m ³)	
Wear Layer	22mil(0.55mm)	
Underlayment	1.5mm IXPE	
TOLERANCE		
Squareness	EN 16511	≤ 0.20 mm
Straightness	EN 16511	≤ 0.30 mm / m
Flatness Crosswise	EN 16511	Concave: $\leq 0.15\%$ · convex: $\leq 0.20\%$
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Certifications and Tests	Tested and Certified by	Intertek, Eurofins, Eurolab, TFI, TÜV Rheinland, TSI, Professional Testing Laboratory
Beveled Edges	YES	Yes -Micro Bevel
Surface treatment	YES	Ultimate Shield UV Coating
Click System	YES	Patented UNILIN UNICLIC and I4F DROP LOCK
Heat Stability	ASTM F1514	PASS
Light Stability	ASTM F1515	PASS
Resistance to Chemicals	ASTM F925	PASS
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Thickness Swelling	EN 16511	PASS (No swelling)
Residual Indentation	EN 16511 / ASTM F1914	PASS (PSI Equivalent > 5,000 lbs.) (≤0.01mm)
Dimensional Stability	EN 16511 / ASTM F2199	PASS (≤ 0.15 %)
Floor Heating System	Yes suitable, see separate installation instructions.	Max. 27° C
Locking Strength	EN ISO 24334	PASS (2.77 kN/m (length); 2.64 kN/m (width))
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TVOC Range	TVOC	PASS (0.092 mg/(m ² h))
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Slide Resistance	EN 13893 / EN 16165	DS / R10
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SOUND ABSORPTION AND IXPE UNDERLAY QUALITIES		
Impact Sound Reduction with 1.5mm IXPE Underlay	EN ISO 717-2	22 dB
Calculated Impact Insulation Class	ASTM E492-09	IIC 73 – drop ceiling / 54 – 6” slab
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