



## TECHNICAL SPECIFICATIONS EN 16511

Loose-laid panels-Semi-rigid multilayer modular floor (MMF) covering panels with wear resistant top layer SPC VINYL FLOORING 4 mm + 1 mm IXPE 0,55 mm

DIMENSIONS		
Thickness	5.00 mm · $t_{max} - t_{min} \leq 0.50$ mm	
Length	1219.2 mm · $l_{max} - l_{min} \leq 0.50$ mm	
Width	181.1 ± 0.10 mm · $w_{max} - w_{min} \leq 0.20$ mm	
Density	2000 (kg/m <sup>3</sup> )	
Underlayment	IXPE	
TOLERANCE		
Squareness	EN 16511	≤ 0.20 mm
Straightness	EN 16511	≤ 0.30 mm / m
Flatness Crosswise	EN 16511	Concave: ≤ 0.15% · convex: ≤ 0.20%
Flatness Lengthwise	EN 16511	Concave: ≤ 0.50% · convex: ≤ 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		
Beveled Edges		Yes -Micro Bevel
Surface treatment (UV)		YES
Click System		I4F DROP LOCK SYSTEM/Optional: UNICLIC
Measuring Heat Stability of Resilient Flooring by Color Change	ASTM F1514	No Changes
Measuring Light Stability of Resilient Flooring by Color Change	ASTM F1515	No Changes
Resistance to Chemicals of Resilient Flooring	ASTM F925	No Changes
Usage Classification	EN 16511	Class 23 / Class 33
Assessment of the surface resistance to microscratching	EN16094 Procedure A	MSR-A1
Assessment of the surface resistance to microscratching	EN16094 Procedure B	MSR-B1

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<b>Resistance to staining</b>	EN 438-2	Class 5 (No Change)
<b>Abrasion Resistance Method B</b>	EN 16511	≥ 3000 cycles
<b>Impact Resistance</b>	EN 16511	≥ 1800 mm
<b>Castor Chair Test</b>	ISO 4918	No change in appearance after 25.000cycles
<b>Effect of Furniture Leg</b>	EN 16511	No visible damage
<b>Thickness Swelling</b>	EN 16511	No swelling
<b>Residual Indentation</b>	EN 16511	≤ 0.01mm
<b>Dimensional Stability</b>	EN 16511	≤ 0.15 %
<b>Floor Heating System</b>	Yes suitable, see separate installation instructions.	Max. 27° C
<b>Locking Strength</b>	EN 16511	fl0,2 ≥ 1 kN/m (length); fs0,2 ≥ 1.5 kN/m (width)
<b>ENVIRONMENT</b>		
<b>Emission of Formaldehyde</b>	CDPH	PASS
<b>TVOC Range</b>	TVOC	PASS (0.5 mg/m <sup>3</sup> or less)
<b>PHYSICAL BEHAVIOR</b>		
<b>Fire Behaviour</b>	EN 13501-1	Bfl-s1
<b>Slide Resistance</b>	EN 13893	DS
<b>Thermal Resistance</b>	EN 12667	0.034 (m <sup>2</sup> K)/W
<b>Electrostatic Behaviour</b>	EN 1815	Antistatic Floor Covering
<b>SOUND ABSORPTION QUALITIES</b>		
<b>Impact Sound Reduction with 1mm IXPE Underlay</b>	EN ISO 717-2	19 dB
<b>Calculated Impact Insulation Class</b>	ASTM E492-09	IIC 62
<b>Calculated Sound Transmission Class</b>	ASTM E90-09	STC 60

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  
 05/2024

**TURKEY PRODUCTION:** Bağlarbaşı Mah. Mor Menekşe Sok. İnci Evleri A Blok No:7/1 34844 Maltepe | İstanbul | Türkiye  
**T:** +90 216 411 46 08  
**E:** info@moderatom.com



## TECHNICAL SPECIFICATIONS EN 16511

Loose-laid panels-Semi-rigid multilayer modular floor (MMF) covering panels with wear resistant top layer SPC VINYL FLOORING 5.5 mm + 1.5 mm IXPE 0,55 mm

DIMENSIONS		
Thickness	7.00 mm · $t_{max} - t_{min} \leq 0.50$ mm	
Length	1219.2 mm · $l_{max} - l_{min} \leq 0.50$ mm	
Width	228.6 ± 0.10 mm · $w_{max} - w_{min} \leq 0.20$ mm	
Density	2000 (kg/m <sup>3</sup> )	
Underlayment	IXPE	
TOLERANCE		
Squareness	EN 16511	≤ 0.20 mm
Straightness	EN 16511	≤ 0.30 mm / m
Flatness Crosswise	EN 16511	Concave: ≤ 0.15% · convex: ≤ 0.20%
Flatness Lengthwise	EN 16511	Concave: ≤ 0.50% · convex: ≤ 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		
Beveled Edges		Yes -Micro Bevel
Surface treatment (UV)		YES
Click System		I4F DROP LOCK SYSTEM/Optional: UNICLIC
Measuring Heat Stability of Resilient Flooring by Color Change	ASTM F1514	No Changes
Measuring Light Stability of Resilient Flooring by Color Change	ASTM F1515	No Changes
Resistance to Chemicals of Resilient Flooring	ASTM F925	No Changes
Usage Classification	EN 16511	Class 23 / Class 33
Assessment of the surface resistance to microscratching	EN16094 Procedure A	MSR-A1
Assessment of the surface resistance to microscratching	EN16094 Procedure B	MSR-B1

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<b>Resistance to staining</b>	EN 438-2	Class 5 (No Change)
<b>Abrasion Resistance Method B</b>	EN 16511	≥ 3000 cycles
<b>Impact Resistance</b>	EN 16511	≥ 1800 mm
<b>Castor Chair Test</b>	ISO 4918	No change in appearance after 25.000cycles
<b>Effect of Furniture Leg</b>	EN 16511	No visible damage
<b>Thickness Swelling</b>	EN 16511	No swelling
<b>Residual Indentation</b>	EN 16511	≤ 0.01mm
<b>Dimensional Stability</b>	EN 16511	≤ 0.15 %
<b>Floor Heating System</b>	Yes suitable, see separate installation instructions.	Max. 27° C
<b>Locking Strength</b>	EN 16511	fl0,2 ≥ 1 kN/m (length); fs0,2 ≥ 1.5 kN/m (width)
<b>ENVIRONMENT</b>		
<b>Emission of Formaldehyde</b>	CDPH	PASS
<b>TVOC Range</b>	TVOC	PASS (0.5 mg/m <sup>3</sup> or less)
<b>PHYSICAL BEHAVIOR</b>		
<b>Fire Behaviour</b>	EN 13501-1	Bfl-s1
<b>Slide Resistance</b>	EN 13893	DS
<b>Thermal Resistance</b>	EN 12667	0.034 (m <sup>2</sup> K)/W
<b>Electrostatic Behaviour</b>	EN 1815	Antistatic Floor Covering
<b>SOUND ABSORPTION QUALITIES</b>		
<b>Impact Sound Reduction with 1.5mm IXPE Underlay</b>	EN ISO 717-2	22 dB
<b>Calculated Impact Insulation Class</b>	ASTM E492-09	IIC 62
<b>Calculated Sound Transmission Class</b>	ASTM E90-09	STC 60

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