

STONE FLOOR










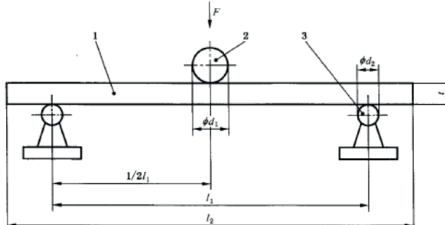
MSPC LAMINATE  
FLOORING

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# TECHNICAL DATA

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**STONEFLOOR**  
 MSPC LAMINATE  
 FLOORING

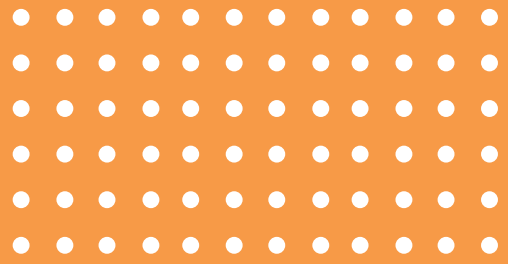
Description	Standard	Symbol	Test Method	Test Result
Density	-	N/A	-	1450 kg/m <sup>3</sup>
Abrasion Resistant	EN ISO 10582 EN ISO 10582		<b>Domestic - Heavy (Class 23)</b> Wear Layer (Nominal): ≥0.30mm Thickness (Nominal): ≥1.5mm	Passes Requirements (Nominal)
			<b>Commercial - Heavy (As HDF Class 33)</b> Wear Layer (Nominal): ≥0.30mm Thickness (Nominal): ≥2.0mm	Passes Requirements (Nominal)
			<b>Light Industrial - Heavy (Class 43)</b> Wear Layer (Nominal): ≥0.70mm Thickness (Nominal): ≥2.0mm	Passes Requirements (Nominal)
Size and Straightness	EN426		Size: ≤0.15% from Nominal Straightness: If Size ≤400mm: ≤0.25mm If Size >400mm: ≤0.35mm	Passes Requirements
Thickness	EN 428		Average (from Nominal): +0.13mm / -0.10mm Any Sample (from Average): ±0.15mm	Passes Requirements
Dimensional Stability	ISO 23999:2018		Maintain the test specimens at 80°±2° C for 6h+15 min	Machine Direction <0.05% Across Direction <0.25%
Curling	ISO 23999:2018	N/A	Maintain the test specimens at 80°±2° C for 6h+15 min	0,5mm
Anti-flaming (Critical Radiant Flux)	ASTM E 648-19ae1		Using a radiant heat energy source	Class 1 (CRF ≥0.45W/cm <sup>2</sup> ) the best level
Staining Resistant	EN 438-2:2016 + A1:2018 Section 26		Acetone (contact for 16h); Coffee (80C, contact for 16h); Sodium hydroxide (25% solution), Hydrogen peroxide (30% solution), Black shoe polish (contact for 10 min)	Rating 5, the best level
Surface soundness	EN 311:2002		Bonding a steel mushroom-shaped pad to the surface of test specimen, carried out at an interval of 24h. A force is applied at a constant speed so that failure occurs in (60±30)s, record the force at failure.	4.4N/mm <sup>2</sup> (the standard for residential flooring is 1N/mm <sup>2</sup> )
Bending Strength and Elasticity	GB/T 17656-2013 Clause 4.7	N/A		Bending Strength: Longitudinal: 34.4 Mpa; Transverse: 27.7 Mpa.  Elasticity: Longitudinal: 6490 Mpa; Transverse: 6210 Mpa.



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Description	Standard	Symbol	Test Method	Test Result
VOCs	EN 16516-2017		Testing was performed by Environmental Chamber (1 m <sup>3</sup> ), followed by sampling using Tenax-TA and DNPH tube, analysis using Thermodesorption System with Gas Chromatography Mass Spectrometry (TDS-GC/MS) and High Performance Liquid Chromatography-DAD (HPLC-DAD).	VOCs: ND; TVOCs: ND;
Formaldehyde Emission	EN 717-1:2004 BS EN 13986:2003 + A1:2015		Performed by UV-Vis	0.05mg/m <sup>3</sup> (E1: ≤0.124 mg/m <sup>3</sup> ; E2: >0.124 mg/m <sup>3</sup> )
Thickness swelling	EN 317:1993		Immersion in 20C water for 24h	0,47%
Resistance to Impact	EN 13329:2016 + A2:2021 Annex H		Large diameter ball (diameter: 42.8 mm, mass: 324 g); Drop height: 2000mm	No cracks and no fracture
Impact Sound Insulation Class (IIC)	EN 13329:2016 + A2:2021 Annex H		The test specimen was covered on a 150 mm concrete floor testing area 11.3m <sup>2</sup> .	IIC = 52, very good
Airborne Sound Transmission Loss (STC)	ASTM E90-09 (2016) ASTM E413-16		The test specimen was covered on a 150 mm concrete floor testing area 11.3m <sup>2</sup> .	STC = 51, very good
Micro scratch resistance	EN16094		MSR-A3 MSR-B3	MSR-A1



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