



Fabulous, functional, forever.

Technical specifications

Engineered friendly flooring

TIER™ indoor flooring

Being pioneers of the outdoor decking industry, Eva-Last® brought all their research and knowledge into the exciting new indoor flooring product range called TIER™.

Having over a decade of experience in the field of extrusion, Eva-Last® has adapted the technique to develop a revolutionary extruded stone plastic composite vinyl flooring.

Our aim is to continually strive to improve our products to give you the most cost-effective product packed with much more benefits in the long run. The manufacturing process also includes a new premixing technique and additional quality control procedure.

	Norm	Test method	Requirement	Test results	Conclusion
SURFACE PROPERTIES					
Wear resistance	-	ISO 1518-1	≤ 0.015 g/1 000 rev	0.01	Pass
	EN 16511	EN 13329	≥ 4 000 cycles		Class 34, Heavy commercial
	NALFA LF 01-2011	NALFA LF 01-2011	≥ 6 000 cycles		Class 4, Heavy commercial
Scratch	-	ISO 1518-1	≥ 2 500 g	3 200 g	Pass
Surface bonding	NALFA LF 01-2011	EN311/NALFA LF 01-2011	≥ 1.25 N/mm2	1.56 N/mm2	Class 4, Heavy commercial
Static load (250 lbs/115 kg)	NALFA LF 01-2011	ASTM F970	≥ 8Mpa	15	Class 4, Heavy commercial
Residual indentation	ASTM F1700	ASTM F1914	≤ 8% (140 lbs/63 kg)	1.70%	Pass
	EN 16511	EN 433/ISO 24343-1	≤ 0.15 mm	0.03	Class 34, Heavy commercial
Impact resistance (big ball)	EN 16511	EN 13329	≥ 1 800 mm	> 1 800	IC3, Class 34, Heavy commercial
	NALFA LF 01-2011	NALFA LF 01-2011	≥ 1 400 mm	> 1 400	Class 4, Heavy commercial
Impact resistance (small ball)	EN 13329	EN438	≥ 15 N	23	IC3, Class 34, Heavy commercial
	NALFA LF 01-2011	NALFA LF 01-2011	≥ 500 mm (19.7 in)	900	Class 4, Heavy commercial
Slip resistance	EN14041	EN 13893	DryCOF ≥ 0.3	0.51	Class DS
	-	ASTM C1028	≥ 0.5	0.62	Meet ADA recommendation
	-	D 51130	≥ R9	R9	Anti-Slip resistance R9
Color fastness to light	EN 13329	ISO 105-B02:1994, Method 3a	≥ Grade 6	> 6	Pass
	NALFA LF 01-2011	NALFA LF 01-2011	Slight change only	Slight change only	Class 4, Heavy commercial
Resistance to staining	EN 16511	EN 438-2	Group 1 and 2: grade 5, group 3: grade 4	Group 1 and 2: grade 5, group 3: grade 4	Class 34, Heavy commercial
	ASTM F1700	ASTM F925	Slight change only	No change	Pass
	NALFA LF 01-2011	NALFA LF 01-2011	Slight change only	No change	Class 4, Heavy commercial

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CHEMICAL COMPOSITION					
Formaldehyde emission	CARB2	ASTM 6007	≤ 0.11 ppm Release ≤ 0.124 mg/m ³	Undetected	CARB2
	EN 14041	EN 717-1	Release ≤ 0.124 mg/m ³	Undetected	E0
VOC	Decret No2011-321	ISO 16000	TVOC < 1000 µg/m ³	31	VOCA+
	DIBT	ISO 16000	TVOC < 1000 µg/m ³	29	Meet AgBB requirement-U mark certified
	Floorscore	Californian 01350	Within CREL/TAC	26	Floorscore certified
Ortho-phthalates	Prop 65	Spectrometry	Ortho-phthalate free	Not detected	Ortho-phthalate free, Comply with Prop 65
Lead	CPSIA	CPSC-CH-E-1002-08	≤ 90 ppm	Not detected	Meet children toy regulation
PAHs	EU REACH regulation No. 1907/2006	Spectrometry and chromatography	< 1 mg/kg	0.7	Meet requirement of a product that can be placed in a mouth
PCP	EN 14041	EN 12673	< 1 ppm	Not detected	Pass
Substances of Very High Concern (SVHC) (mercury, chromium VI, Cadmium, SCCp, benzene, Xylene, tributyltin, etc)	EU REACH regulation No. 1907/2006	Spectrometry and chromatography	≤ 0.1% (w/w)	Not detected	REACH compliant

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PHYSICAL PROPERTIES					
Heat exposure resistance 80°C/180°F	EN 16511	ISO 23999	$\Delta W/\Delta L \leq 0.25\%$	0.03%	Class 34, heavy commercial
	ASTM 1700	ASTM F2199	$\Delta W/\Delta L \leq 0.16\%$	0.03%	Pass
Dimensional variation (humidity change)	EN 16511	ISO 24339	$\Delta W/\Delta L \leq 0.15\%$	$\Delta W/\Delta L \leq 0.01\%$	Class 34, heavy commercial
Swelling after submersion in water	EN 16511	ISO 24336	≤ 12%	0%	Class 34, heavy commercial
	NALFA LF 01-2011	NALFA LF 01-2011	≤ 12%	0%	Class 4, Heavy commercial
Impact sound reduction (IIC)	-	ASTM E492-09	-	IIC=71	IIC=71
Sound transmission reduction (STC)	-	ASTM E90-09	-	STC=75	STC=75
Locking strength (23°C)	EN 16511	ISO 24334	Long side ≥ 2.0 kn/m Short side ≥ 3.5 kn/m	Long side ≥ 6.3 kn/m, Short side ≥ 5.4 kn/m	Class 34, heavy commercial
Thermal conductivity	EN 14041	EN 12667	-	0.173 w/(m.k)	Suitable for underfloor heating system
Thermal resistance (R value)	-	ASTM C518	-	0.58 m ² -k/w	Suitable for underfloor heating system
Reaction to fire	EN 14041	EN 13051-1	-	CHF=9.4 kw/m ²	Class Bfl-S1
Fire resistance (CHF)	-	ASTM E648/662	-	0.94 w/cm ²	Class 1